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Item 6

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from Dr Rush's Lectures:

He consi[illegible] Theory & Practice inseparable in the han[ds] of a physician who is supposed to do good to his fellow man & without it he is a mere mechanic there have been made more discoveries within these twenty years in Medicine than for a hundred [illegible] is there is in medicine no uncertainty But [illegible]fection. There are different modes of procuring [illegible]al information from Books Recollection [illegible] attention to Lectures delivered on different [illegible] particulars care is examining the symptoms [illegible] & Visiting the sick in Visiting a patient [illegible]st to enquire the history of the disease [illegible] habits of his life & the predisposing [illegible]eases differs with the seasons He thinks [illegible] an Unit or a simple & indivisible quality [illegible] Life is the certain effect of certain Stimuli [illegible] the Sensibility & excitability which are extended in different degrees over every external & internal part of the body the healthy action of the body in awaking state consist in a proper degree of what has been called excitability & excitement the former is the medium on whi[ch] [illegible] act [illegible]

in an exact proportion & these [illegible] of both
diffused uniformly throughout every part of
the body consists good health disease [illegible] the
reverse of this, It depends in part upon a dis-
proportion between excitement & excitability
& in a partial distribution of each of them in
thus distinguishing the different ~~degrees~~ states of
excitement & excitability he differs from Dr Brown
who supposes them to be uniform & equable
morbid as well the healthy states of the bod[y]
Brown thinks Fever to consists in debility
places it wholly in morbid excitement [illegible]
& fixed by previous debility ~~Rush~~ [illegible]
Fever to consist in a preternatural ~~[illegible]~~ convul-
=sive action of the blood vessels Brown [illegible]
a change only of the natural action of [illegible]
vessels Dr Rush considers it the business of [illegible]
to equalize them in the case of fever that is [illegible] act
the excess from the Blood vessels & to restore them to
the other parts of the body The law of the system
is if one natural stimulus is absent it generally
is supplyed by the increase action of others
this is most certainly the case when a natural
Stimulus is is abstracted suddenly

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The inhab[illegible] of some countries are more subject to inflammatory diseases than others & carry with them the predisposition some parts of the body is more subject to morbid affections than others such as the brain & stomach when the latter is affected the pulse is small the pulse is the true criterion of disease in the healthy state soft free & without resistance it strikes between 60 & 80 being different in some people the Dr. knew one that it exceeded 120 in a minute & another that it never in health exceed^d 40 it varies at different times of life from infancy to the age of seven when it arrives at its fixed force until old age when it is quicker & intermitting it is ~~slower~~ quicker in women than men quicker in small than tall people it is also influenced by climate & civilization in cold countries slower than warm & slower in Indians as has appeared by experiment than in civilized nat & different at diff^t hours of the day in the morn^g weak^r than at noon it also is influenced by the air exercise eating & drinking pregnancy an erect posi the passions of the mind fear &c by Opium Bark & Blisters according to the part applyed the pulse is quicker immedi^y after weaking in consequence of the shock we receive, The Morbid State is for instance in Aneurism you find a tumulus pulse though he considers the body an unit still you

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are not to determine on no one Symptom of the pulse But on all combined ~~Sup blood~~ in diseases it may be quick & not frequent the Dr knew a case of Apoplexy when the pulse fell to 70 In Hepatic diseases you are to examine the Feces Countenance Voice test & Tongue &c there are two appearences of the latter there is the dry occasioned by the patient sleeping with his mouth open & the dark which is often caused by taking black substances into the mouth But in disease is caused by Bile you are also to ask whether he lies on his right or left side with most ease if the former its Hepatic He divides the pulse into ten grades five below par & five above the depressed Synochus Synocha & Synochaphtoid also a full frequent & tense pulse such as produced in pulm y Rheumat m & maniacal states of fever these with many others are above par & Typhus Typhoid slow intermiting & impercep ble pulse & many more are below par he has changed Pneumonia Notha to Vera by bleeding The frequency of the pulse is occasiond by a morbid excitement of the blood the depressed pulse in fainting tremors & Convulsions is from a partial compression of the hearts an impreceptable slow intermit g & depressed indicates

congestion of the brain & occasioned by great excess of stimulus acting on the heart & arteries — A full round quick & tense pulse occurs in Yellow Fever, full quick not round takes place in common in-flammatory fever —

He divides the institutes of medicine into Physiology Pathology & Therapeutics the objects of the first are the laws of the human body in its healthy state the second includes the history of the causes & seats of diseases the subjects of the third are the remedies for those diseases Simple anatomy is a mass of dead matter it is Physiology that infuses life into it A knowledge of structure of the human body occupies only the memory Physiology introduces it to the higher & more noble faculty of the mind the component parts of the body he compares to the materials of a house lying without order in a yard its Physiology like a skilful architect which connects them together, The Anatomist who describes the circulation of the blood acts the part of a Physiologist as much as he does who attempts to explain the functions of the brain in this Dr Hunter did honour to our science for few men ever explained that subject & many others with more perspicuity & eloquence than that illustrious Anatomist

In beholding the human body the first thing that strikes us is life the end of all the studies of a physicn is to preserve life & this cannot be done until we know in what it consists, Animal life consists of motion sensation & thought when united It may exist without thought or sensation but neither can exist without motion, Every part of the human body the nails & Hair excepted is endowed with sensibility or excitability or with both of them By sensibility we mean the power of having sensation excited by the action of impressions Excitability is meant the power in the human body by which motion is excited by means of impressions this property has been called irritability contractility mobility & Stimulability I make use of excitability I mean by it a capacity of imperceptible as well as obvious motion ——

The human body is so formed and connected that impressions made in the healthy state upon one part excite motion or sensation or both in every other part of the body from this it seems to be an Unit or a simple or indivisible quality or substance Its capacity for receiving motion & motion is variously modified by means of the

senses it is external & internal — Life is the effect of certain Stimuli acting upon the sensibility & excitability which are extended in different degrees over every external & internal part of the body — these Stimuli are as necessary to its existance as air is to flame i Animal life is truly (to use the words of Dr Browne) a forced state agreeable to this the action of the Brain the diastole & systole of the heart the pulsation of the arteries the contraction of the muscles the peristaltic motion of the bowels the absorbing power of the Lym=phatics secretion excretion hearing seeing smelling taste & the sense of touch nay more thought itself are the effects of Stimuli acting upon the organs of sense & motion these Stimuli are divided into ex=ternal & internal the later are ~~sound~~ food drink chyle the blood a certain tension of the glands that contain secreted liquors & the exercise of the faculties of the mind, the external Stimuli are Light Sound odours air heat exercise & the plea=sures of the senses of Light it is remarkable that the progenitor of the human race was not brought into existance until all the Lumenaries of Heaven were created the first impulse of life was probably imparted to his body by means of light its influence

upon the animal Spirits strongly demonstrates its connection with animal life the well known pedis=trian Mr Stewart in one of his Visits to this City in=formed me that he had spent a Summer in Lapland in Latitude 69 during the greatest part of which time the Sun was seldom out of sight he enjoyed during that period uncommon health & Spirits which he ascribed to the long duration & invigorating influence of Light — Sound has an extensive influence upon human life the influence of Sounds of a certain kind in producing excitement & thereby increasing life cannot be denyed — Fear produces debility which is a tendency to death Sound obviates this debility the school boy & the clown invigorate their feeble & trembling limbs by whistling or singing as they pass by a country church yard & the Soldier feels his de=parting life recalled in the onset of a battle by the noise of the fife & the poets spirit stirring drum intoxication is frequently attended with a higher degree of life than is natural, sound will produce this with a very moderate degree of fermented Liquor I shall mention it hereafter as ~~a~~ ^itself^ a remedy

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in the weak state of life in many diseases I knew a case where a scream suddenly extorted by grief proved the means of resuscitating a person who was supposed to be dead, Odors promote Animal life the greater healthiness of the country than the city is derived partly from the effluvia of odoriferous plants which float in the atmosphere in the Spring & Summer months acting on the System through the medium of the sense of Smelling the effects of odors upon Animal life appear still more obvious in the sudden revival of it which they produce in case of fainting Air acts as a powerful stimulus on the System through the medium of the Lungs it is certain Children cry as soon as they come into the world may not this be the effect of the sudden impression of the air &c may not the red color of their skin be also the effect of Air It acts on denudated Animal fibres for the skin when deprived of the cuticle is effected with pain & inflammation It promotes the natural action of the alimentary canal, Heat is a uniform & natural Stimulus in promoting life it is derived in certain seasons & countries in part from the Sun but its principle source is from the lungs in which it is generated by the decomposation of pure air & from which is

conwayed by means of the circulation to all the parts of the body, Exercise acts as a Stimulus on the body in ~~the~~ various ways its first is on the muscles these act on the blood vessels & they on the brain & Nerves it is also ~~[illegible]~~ Stimulated by the positions of Standing Sitting & lying on the sides all which act more or less on muscular fibres & by their means upon every part of the System. The pleasures we derive from our Senses have a powerful & extensive influence upon human life The next are internal Stimuli these are food this acts upon the tongue Such are the sensibility & excitability of this organ & so intimate is its connection with every other part of the body that the hole System is invigorated by aliment as soon as it comes in contact with it also by mastication deglutition & by its presence in the Stomach when it acts by its quality & quantity food by distending the Stomach Stimulates the contiguous parts of the body Vegetable aliment & drinks answer this purpose in the human body The Chile acts upon the Lacteals mesenteric glands & thoracic duct in its passage through them & its probable its first mixture with the blood in the subclavian Vain & its first action on the heart are

attended with considerable Stimulating effects
Blood is a very important internal Stimulus
it has been disputed whether it acts by its
quality or only by distending the blood vessels
It appears to act in both ways I believe
with Dr Whytt that the blood stimulates the
heart & arteries by a Specific action, —
A certain tension of the glands & other parts of
the body serve to support Animal life this is
evident in the vigor which is imparted to the
System by the fulness of the Seminal Vessels &
gall bladder & by the distention of the Uterus
in pregnancy diseases seldom take place
until the stimulus from the distention of the
Uterus is removed by parturition —
The exercise of the faculties of the mind have a
wonderful influence in encreasing human life they
all act by reflection only after having been previously
excited into action by impressions made on the body
It is thus the brain repays the heart for its blood
by reacting on its muscular fibres the infce of the
diffnt faculties of the mind is felt in the pulse
in the Stomach & in the liver & is seen in the face &c
those that act most unequivocally in promoting life
are the understanding the imagination & the passions —

Thinking belongs to the Understanding & is attended with an obvious influence on the degree & duration of life Men of great & active understandings who blend with study temperance & exercise are in general long lived & Idiots are short lived hence the remark on dull men that they have scarcely ideas enough to keep them awake, The immagination acts with great force upon the body whether its numerous asso=
=ciations produce pleasure or pain But the passions form a constant stream upon the wheels of life all the objects of the passions are accompanied with desire or aversion to the the former belong chiefly hope love ambition & avarice to the latter fear hatred malice envy & the like Joy Anger & terror belong to the class of emotions, In the original constitution of human nature we were made to be stimulated by such passions & emotions only as have moral good for their objects Man was designed to be always under the influence of hope love & Joy But by the loss of his innocence he has subjected himself to emotions & passions of a malignant nature But such as they are they produce Animal life Dr Darwin relates a case where a man over=

=come the fatigues of travelling by thinking on a man he hated; The debility induced by disease is often removed by a sudden change in the temper I see no occasion to admit with Dr Browne that the mind is active in sleep it is true it acts in dreams But these depend upon a morbid state of the brain Life is in a languid state in the morning & acquires vigor by the appn of Stimuli in the forenoon it is in its perfect state about midday & is stationary for some hours from the diminution of the sensibility & contractility of the action of the system to the acts of impression it lessens in the evening & becomes languid at bedtime —— The Stimuli that have have been enumerated when they act collectively & within certain bounds produce a healthy state this is what has been called excitement & excitability the reverse of this is disease — The reduction of the excitement of the blood vessels by means of cold prepares the way for a full meal or a warm bed to excite in them the morbid actions that takes place in pleurisy & or a Rheumatism A Horse eats more hay in a cold than a warm state

The different degrees & States of Animal Life Sleep is the first this is Natural or Artificial natural Sleep is induced by a diminution of the excitement & excitability of the System by the continued application of the Stimuli which act upon the body in its waking State when these Stimuli act in a determined degree that is when the same number of Stimuli act with the same force & same length of time on the System sleep will be brought on the same hour unless they act with more force — Artificial Sleep can be procured by opium &c. they act by carrying the System beyond the healthy grade of excitement to a degree of indirect debility which Dr Brown calls the Sleeping point this may be induced at any time by the abstraction of the usual stimuli of life Dr Boerhaave relates of a Dutch physician who thought the waking state a violent one & sleeping the only natural contrived by abstracting all kinds of stimus to sleep away hole days & nights until he impaird his understanding & died an Idiot in an Hospital The Air appd to the lungs during sleep perhaps acts with more force than while awake I believe more air is phlogisticated during sleep than at other times for the smell of a close room in which a person has slept one night is more disagreeable than a room

under equal circumstances when half a dozen of people have sat the same number of hours in the day time Respiration is performed with a greater extension & contraction of the muscles of the breast in sleep than in the waking state & increases the impetus of the blood through the heart & Blood vessels during sleep the blood vessels appears to have their sensibility converted into contractility by which means their muscular fib^s are easier moved by the blood, Aliment acts more powerfully in the sleeping than waking state this is evident from digestion going on more rapidly while awake than a sleep the more slow digestion the stronger the stimulus Urine accumulated in the bladder stimulates & influences animal life, Feces have an effect on animal life, The partial & irregular exercises of dreams promote life they occur only in a deficiency of other stimuli such is the force with which they act, that Dr Brambile physician to the King of Germany informs us he knew wounds of soldiers to inflame & put on a gangrenous app^e in consequence of the commotions excited in their bodys by irritating dreams the stimulating passions act through the medium of the will we hear of people walking in their sleep the stimulus of lust often awakens us with pleasure or pain even the debilitating passions of grief & fear produce an indirect operation on the system that is fa=vourable to life in sleep for they excite that

distressing disease called the night mare which prompts us to speak or halloo & by thus invigorating respiration restores the languid circulation of the blood in the heart & brains do not complain of this midnight hag she is sent to rescue you from sudden death Dr Darwin supposed dreams never attended with volition but facts prove that the will act more forcibly than when awake
Animal life in its different stages — its first motion is produced by the stimulus is produced by the male seed on the female ovum this is organ=ly Dr Hallers the pungent taste Mr John Hunter discovered in the male seed answers this purpose No sooner is performed than & the fœtus formed then its capacity of life is supported by the stimulus of Heat which its mothers womb prods By the stimulus of its own circulating blood By its constant motion after the third month of pregnancy, the absence of this is a sure sign of indisposition or death of a fœtus considering how early a child is accustomed to it it is strange a cradle should be refused it — In Infants there is an absence of many of the stimuli wh. support life the excretions are deprived of acrimony

their mental faculties are weak to excite But these are amply supplyed by sound light & Air So powerfully do light & sound act on them that nature has defended their eyes & ears by imperfect vision & hearing for some weeks after birth the capacity of infants to be acted on by moderate degrees of heat is evident from their suffering less from cold than grown people in an account of Hudson Bay we read of a child that was found alive on its mothers back after she had been frozen to death— By a law of Sensation we find impressions that once produced pain become pleasure by repetition or duration for we find a child cry when first exposed to the air & its skin becoming red— But we after find that infants at a certain age discover an increase of life when exposed to the open Air— we mention that excitability predominated over sensibility in infants we see this in their patience of cold & injuries & even surgical opern. Sucking at all hours supports animal life in Chilⁿ, Laughing & crying promotes animal life its as possible for a child to cry & be fat as it is to be fat & & laugh

from all these it appears that human life is in excess from fifteen to thirty five, during this time the passions blow a perpetual storm pleasure is the most predominating ambition succeeds it, the middle stage is the most perfect physical hence fewer people die between forty & fifty seven than any other stage In old age the senses of seeing hearing & touch are impaired the venerial appetite is weakened the pulse becomes slow & intermittant from a decay in the force of the blood vessels & the operations of understanding impaired the want of these are supplyed by the quality of the food taken in & quantity by old people they eat more than those in middle life By the Stimulus of feces which are retained for five or six days By the fluids rendered preternaturally acrid by age the urine sweat & even tears of old people possess a peculiar acrimony The Blood too loses part of the mildness which is natural to that fluid & hence the difficulty sores heale in old people & cancers are more common in the decline than any other period of life —

By the uncommon activity of a certain passions these are good or evil avarice is the principle one of the latter it knows no holy days, By the great passion for talking old people have By their wearing warmer clothes & prefering warmer rooms By dreams we are once men & twice children in formerly speaking of animal life in infancy it was mentioned that the contractility of the animal fibres predominate over sensibility in this stage of life, life is contained in a less imperfect state in old age in women than in men the former […] knit & spin after they lose the use of their ears & eyes ——

We observe some people to be blind or deaf or dumb for their birth these are brought on by diseases then animal life is deprived of the stimulus of light colors sounds & speech & those produced by them But these are supplyed by increased excitability & sensibility in the remaining senses Idiots are supplyed by other stimuli for the absence of that of the understanding their venereal appetites are increased long fasting is usually the effect of disease incapacity & a principle of religion arising from the first cause the stimulus of disease answers when accidental or as a means of producing moral happiness the stimulus of food is supp'd by a full Gall Bladder this state

of the receptacle of the bile has generally been found in empty Stomachs the bile is sometimes absorbed & imparts a yellow color to the skin of persons who suffer or die of famine

By increased acrimony in secretions & excretions

By increased activity in the Understanding & passions Gamesters improve their minds by fasting when about to play for money

That ordinary life consists in the excitement & excitability of the different parts of the body & that are occasionally changed into one other In apparent death from drowning violent emotions of the mind & from sudden impression of Miasmata there is a loss of excitement But the excitability remains for minutes after & sometimes for hours provided the accident which caused it has not been attended with such exertions as is calculated to waste it if for example a person fall suddenly into the water without bruising his body & sink before his fears or exertions had time to dissipate his excitability his recovery from apparent death might be effected by the action of heat or frictions on his body so as to convert

his accumulated excitability into excitement 11
The same takes place in freezing provided the
organization of the body be not injured or
excitability wasted, excitability is the vehicle
of motion & motion when continued long enough
produces sensation which is soon followed by
thought & these form life Mr John Hunter
thinks if the body could be suddenly frozen
life might be continued for years in a sus=
=pended state & revived at pleasure provided
the body was in a temperature barely sufficient
to prevent animation & not so great as to endanger
the destruction of any organic body or part
the resuscitation of insects prove this partly
The following observations apply more or less
to all the animals on our globe ——
They all possess either hearts lungs brains nerves
or muscular fibres it is a controversy among na=
=turalists whether animal life can exist with=
a brain But no one can deny muscular fibres
& of course contractility or excitability to belong to
animal life, They all require more or less air
for their existance even the snail exhales it
several months under ground through a pellicle
which it waves out of slime Birds possess heat
several degrees beyond the human body ——

those that pass winters in a state in all appearance destitute of heat life is supported in those by By such an accumulation of excitability as to yield to impressions which are to us imperceptable By the Stimulus of aliment in a state of digestion in the stomach or by the stimulus of aliment restrained from digestion by means of cold Mr John Hunter has proved by experiment that cold checks that animal process By the action of air on their bodies Heat & cold are relative terms & that different animals according to their organization require different degrees of heat for their existance 32 degrees are as stimulating to these cold Blooded Animals as 70 or 80 to the Human body I exclude the intelligent principle of Whytt the Medical Mind of Stahl the healing powers of Cullen & the vital principle of John Hunter the seed of a plant like an Animal body has no principle of life within itself if preserved for life in a drawer or in earth below the Stimulating effect of heat air & water it discovers no sign of Agitation It grows like an Animal only in consequence of Stimuli acting on its capacity of life

Death is produced by the abstraction of all the Stimuli that support life just as mecanical as the emission of sound from a violin is prevented by the abstraction of the bow from the strings By the excessive force of Stimuli of all kinds such as happens from too much pressure on the strings of a violin preventing its musical tones By too much relaxation or ~~[illegible] combination~~ too weak a texture of the matter which composes the human body such as the total extinction of sound by the relaxation of the strings of a violin By the error the place of fluids or solid parts as fixing the strings of a violin on the body in place of the bridge its also produced by a preternatural rigidity & in some cases of ossification of the Solids this doctrine teaches us a new view of the nervous system its origin in the extremities of the nerves on which impression is made & its termination in the brain It discovers tous the means of promoting health & longevity by proportioning the number & force of Stimuli to the age climate habits & temperament of the body diseases consists in excessive or preternatural excitement in the whole or part of the body accompanied with irregular motion & induced by natural or artificial stimuli the latter has been called by Jn Hunter Irritants the absence of motion in acute diseases is the effect only of

the excess of impetus in their remote causes
It shews as all diseases depend upon the abstraction
of Stimuli from the whole or part of the body —
For the former we use a class of medicine called
Sedatives & for the latter Stimulants: Under these
two extensive heads are included all the Materia
Medica, Respiration the lungs are holey passive
until air distends them so that their motion is
voluntary so with the sphincters & the heart
The Lungs contain a small quantity of nerves so
that they are not so irritable as other parts in conse=
=quence of this we loose & gain something for disease
goes on slower & with less pain But a Physician
has not a moment to loose when the pain is fixed
in the breast & not wait for cough & other Symp=
=toms in respiration the air we discharge puts out
flame & animals cannot exist in it for any time
Animals can live longer in oxigen than atmospc
air perhaps carbonic Gas prevents the bad smell
The Voice is formed by the Larinx & glottis there
can be none unless respiration is voluntary old
people speaks slowly becaus their hearing is not
perfect, Masters in imperfect speech press
the Larynx in order to soften it & allow speach
there can be no Ideas without speech with which
Ideas perish in the mind —

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The circulation The heart is nearly in the center of the body for the purpose of distributing the Blood to all parts of the body its the most excitable & still the least sensible muscle in the body its also the eldest & is more irritable internally than externally it sends the blood by the Arteries from the left Ventricle to all the parts of the body & is returned again by the Veins to the right side of the heart, all muscles become Stronger by frequent action the increase force of a muscle is occasioned by the abstract of Nervous fluidity from other parts, condensed without the arte-
-ries the heart could not support existance for instance in sleep & fainting &c the heart is at rest while the arteries by their muscul. force keep the blood in motion they are the centinals of life they are stronger as they recede from the heart, in palsy the Radical artery of one arm is more irritated than the other in consequence of the irritability of the muscular fibres —— Nervous System The Brain is the seat of the mind conveying sensation & impressions to the whole system ten pair of nerves come from the Cerebrum & cerebellum

there is more brain in man than any animal the vains are more condenced comeing from the brain there exist no absorbants in this vesas the nerves terminate in muscles & motion they are a continuation of the medullary Substance of the Brain they do not contract when cut — Sympathy has a con=
=siderable application to the Physiology of diseases if a dog takes Nux vomica it will have no bad effect on him if well flogged the Stimulus of two impressions you will have a new Idea impression is so forcible that it destroys sensation the continuance of impressions loose their force the Miasmata of the West Indias has no effect on those accustomed to them & are sure to be destructive to Strangers, diseased actions frequently become natural by frequent returns in this irrita=
=bility becomes regular at the expence of sensibility thus Child first move voluntary then involy & again voluntary how many cronic diseases becomes so by habit as intermittants & miscarriages become frequent by habit —

The Stomach Sympathizes with different parts of the body with the head producing a pain of that part with the Eyes lungs liver heart kidneys testes tongue & passions of the mind Sympathy is not reciprocal for though a disease liver produces an affection of the Stomach yet a diseased Stomach will not cause a diseased liver & though cold feet effects the Stomach yet the Stomach dont effect the feet Sympathy is divided into universal & partial by the former is meant when the hole constitution sympathizes with some sensation or action of a part by partial is meant where one or more distinct part Sympathizes with ~~[illegible]~~ some local sensation or action the universal sympathy are three the Symptomatic Fever the nervous & Hectic the partial is divided into three the remote the contiguous & the continuous — The Sympto=matic fever is an immediate effect of local injury the nervous has no determined ~~cause~~ form nor stages of disease from the first cause as delirium Spasm locked Jaw etc the Hectic fever is attended with a local disease which the constitution is not able to overcome

remote Sympathy is when there appears no visible connection of parts that can account for such effects in these cases there is commonly a sensation in the Sympathizer which is delusive & produce a wrong reference of the mind to the seat of the disease as a pain of the Shoulder in inflammation of the liver the Contiguous is that which has no connection than arises from the contact of seperate parts as in contained parts sympathizing with the containing as the Stomach with the abdomen the lungs with the chest the brain with the scalp & testicles with the scrotum, The continuous is where there is no interruption of parts & the symp y is continued from the irritating point as from a centre so as to be lost in the surrounding parts in proportion to the distance as in spreading inflammation The sense of touch is most evident in the tops of the fingers & lips the skin is to defend the nerves the air makes no change in the sensibility of these ~~nerves~~ parts The part that contains most bloodvessels is most sensible in order to feel more accutely we ought to dip our hands in warm water or rub our

fingers to some stiff substance the nails the D^r supposes to reverberate the sense of touch —
Taste exists in the edges & top of the tongue & supposes to be produced by the nerves ending in small papilla its more acute in young than old people its much influenced by habit & varies in different people according to their manner of living The Quickness of taste in some is attributed to their not being accustomed to high seasoned Aliment Smell is produced by the nerves & blood vessels it is often occasioned by Sympathy it cannot take place without free inspiration Smell is increased by shutting the mouth sneezing increases smell odours have a considerable effect on morals & on the mind odours have an intimate connection with diseases the acuteness of smell in a dog is occasioned by the length of his nose & large of the sinuses —
odours are innumerable but original seven
Seeing in birds most acute in Man next then Animals & Insects those birds that seek their bread by seeing have three eye lids such as the eagle Children dont see immediately

after birth he considers seeing a matter the reason northern nations have blue & gray eyes is from the scanty light & that those to the Southward Black eyes from the rayes of light being stronger Botterford has written on this subject the right eye is adapted to vision better than the left a large portion of animal life is taken in by light there are seven original colours red orange Blue green Violet Purple & yellow Green is the most pleasing of all these to the sight & most stimu-lating to retain the eye in the orbit you are to lie on your back the eye presses on the retina its always necessary to recieve the light laterly reading too much by night is destructive to sight & in too much light pressing the eye in washing the face is injurious Blacking the eye brows collects the rays of light the early use of Spectacles is useful

Hearing the earth as well as the air is a vehicle of sound water also is a vehicle of sound

So hearing is divided into two kinds the one of hearing & the other of distinguishing sounds it is only acquired by experience the Dr thinks the

Eustachian tube dont assist in hearing still he says that hearing is indebted to the mouth the eyes & nose all the senses may be translated Dr Haller mentions a case of a man who at the noise of a drum felt pains in his bowels we hear imperfectly when we yawn owing to air rushing into the eustachian tube the senses are the evidences of thought Voices & words are acquired with difficulty reason is necessary to our senses & is continually connected with it touch is necessary to connect seeing & hearing

Of the faculties and operations of the Mind—

The Mind of every one is the will itself the hist of the human mind & its faculty is the most certain its the most useful of all the discases of the mind the Dr considers the soul no more than impression & of course no more than the body there can be no mind without impression its the most intelligable the Idea of soul is hypothetical animal life is created first & then Spiritual life the mind gradually opens as the body can bear Mr Law thinks the Soul is not independant of the Body — That the mind acts on the body & the body on the mind the Faculties are memory immagination will understanding passions a principle of faith & morals —

If a minute microscope could be applied to the brain dimuted the Dr thinks that motion could be seen corresponding with those in the body motion is obvious in the Senses & takes place in the nerves the Brain Seems adapted for those impressions the nearer the heart to the brain in animals the more thought they possess the Brain of old people act slowly in consequence of the body acting on it slowly Memory is essential to the mind - & is of two parts the one for receiving & the other for retaining we acquire more information in the three first years than many three after - there are five kinds of memory for faces words names - numbers & Ideas names & words are forgotten in the last stage of our lifes Imagination is a revival of Sensation as well as Ideas it may be compared to history, Idea is a quality as well as sound the operations of the mind are ~~volition~~ reason experience Perception & association Association by which thoughts are connected its the same thing in the brain that Sympathy is in the System ~~ing~~ writing excite Ideas more than reading or any other mode words produce association certain Songs produce associations

the Dr tells a story of a gentleman who when riding along & that a new Idea occured to him came of his horse & put a leaf into his pocket book wh when he went home brought to his mind the Idea passions invigorate the understanding The Will would be inactive without motives to act on it we have no principle of life in the body — Judgment is the result of experience Reason goes beyond experien the Senses awaken first & memory after at ten the immagination acts or twelve Judgement at twenty The blessing of old age is the recolecting good actions & forgeting the unpleasant he knew a woman who recolected nothing but her God —

The pleasures of the Senses & Mind are connected the pleasures of the Senses # are limited the pleasures of memory in recolecting every circumstance is great the pleasure of the Understanding is the most sublime gift of nature the pleasure of novelty belongs to it & is of considerable efficacy in the cure of diseases the pleasure of agriculture is born with us the pleasures of the will is acting with freedom Motion is essential to pleasure in a certain degree pain is owing to distention torpor debility &c a moderate degree of destention produce pleasure & a moderate degree of debility produce pleasure

Dr Haller says that there is an afflux of blood to the part pleasure is a mere quality the force of the pain destroying the nerve pain is destroyed by duration no unequal sensation can be pro=
=duced at the same time, That the mental faculties act on the alimentary canal we know secretions act from glandulous parts, We know by the laws of our senses that grief after some time becomes a pleasure Dr Priestley sayed that he never found his spirits better than when after experi=
=encing a misfortune & General Armand sayed that at the battle of Quebec that the soldiers experienced a great want of provisions but complained more of the want of tobacco — there can be no pleasure without pain

Of Sleep & Dreams The cause of sleep is an accumu=
=lation of blood in the brain by a certain degree of pressure on the brain causes commatose & sudden stimulus brings on sleep & a higher degree of this stimulus brings on death, Heat applyed to the body after cold procures sleep its supposed Animals sleep by their own breath Generals sleep well the ~~[illegible]~~ night before a battle he knew a watch maker that could not sleep without having a number of watches clacking near him —

bleeding has the same effect by lessening the excitab[ility]
of the system Oil rubed over the surface of the body
the Dr mentions the case of a woman that slept well
after the loss of her child the cessation of pain
But if ten degrees below the sleeping point there
is no sleep small doses of opium dont procure
sleep but the reverse, the ignorance of people in
giving opium without regard to the system, the
stimulus of thought taste touch of the ear eye &c the
case when the muscles of a part of the body act
If the muscular system is above par & the nervous below
the pulse becomes slow in sleep tremors are suspended
in sleep the peristaltic motion of the bowels is sus-
pended in sleep partly, excretions are decreased
& secretions increased during sleep, people fatten
that sleep much, It requires more cold to destroy
the body in a waking than sleeping state old people
sleep less than young there is no consciousness while
a sleep-or a weak man suddenly then fall a sleep
eight hours is the rit time to sleep more is injurious
Sleep is an abstraction of stimulus or diminution of the
heat of the body Dreams are a morbid or irregular
incoherent thoughts the Understanding morals &
are affected the memory is better in general ——

The will acts more in dreams than at other times Dr Rush agrees with Locke that the Souls sleeps with the body we may recolect dreams by closing our eyes for some time after we wake dreams ~~most~~ perfect when we argue in them The blind Phylosopher made verse in his sleep the countess of — in France while asleep spoke a language that she learned while a child from her nurse owing to a greater equilibrium of the system & recolecting dormant Ideas our brains are fatigued & cannot recolect until the brain is at ease lovers dream only at the commencement & ending of their passions dreams are premonitory to disease Sleep is a fund for excitability for repose coherent thoughts & improves the moral faculties & understanding. (Of Aliment)

Man was created a civilized creature want of religion letters &c caused them to be savages — Natural hunger is not excited the voracious appetite of a robber once was known to be caused by the Gale bladder opening into his Stomach in yellow fever some have a canine appetite & if the patient dont get rid of it in a few days they are sure to die ———

Mastication the food is divided by the teeth then sent to the stomach where it undergoes its different process to fit it for chile the stomach being very vascular & largely supplyed with nerves subjects it to many diseases, the Gastric Juice heat & solution disolve the aliment taken into the system Spalanzany found digestion to take place after death the Dr Says meat well done is easier digested than otherwise so the French adopts a better plan than the english

Digestion is an animal process, after every full meal there is a slight fever commencing with chill a disposition to sleep induced by a compression of the blood on the brain to the sleeping point the inhabitants of the mountains of Switzerland ascend the highest tops to increase digestion the Liver secrets Bile for the duodenum, the design of the Liver is to recieve blood from all parts this Bile cannot be essential to chile for it passes the duodenum before the chile comes. In diabetes the blood contains a preternatural quantity of chile, the Hepatic of Bile is always sweet in new born infants, the Bile stimulates the bowels the stomach presses on the liver & puts a stop to secration the influence of the stomach brings dis=eases of the Liver

The Drs ingenious theory of the use of the Spleen
or the function of the Spleen, Four uses have
been ascribed to the Spleen It has been said to
prepare the blood for the secretion of bile from it
by the liver To be the organ which the red globules
are formed to be a counterweight to that of the
liver & lastly to supply occasionally a quantity
of blood to the vessels of the Stomach which
secrete the gastric liquor when unduly distended
with food — All the motions of in the human
body are produced by external & internal Stimuli
these exert their influence on the blood vessels directly
or indirectly, from innumerable causes they are
liable to become excessive in their force these are
exercise labour intemperance passions of the mind
& disease, that a provision to defend the tender &
vital parts of the body from the effects of this force
seems to be a necessary appendage to the body
this provision I believe to be the Spleen my reasons
are as follows — The Spleen contains
but one artery & that a large one with veins that
ramify through every part of it, This artery is
larger than that of the liver which is four times
larger than the Spleen according to Dr Wintringham
its stronger than the aorta its veins are peculiarly

strong. — In having but one artery it differs from those viscera that have certain offices to perform on the blood these are the lungs liver & heart who have arterys for their nourishment; The Spleen having no work to perform upon the blood & serving merely as a temporary reservoir for it is nourished by its single artery, It has no excretory duct, Its texture is soft & spungy & of so disten=sible a nature that it will admit of an increase of weight from blood to three or four pounds according to Dr Bailie with departure from its natural state in which it contains a pound it is from this facility of distention that its com=pared to the corpora cavernosa penis ———
The Situation of the Spleen. It is placed near the heart the situation suits it for dis=tending ——— Where is the school boy after running ten or fifteen or twenty minutes has not felt pain in his left side this is so great as to oblige him to sit down & cry out for relief. in laughing the Spleen opens a waste gate for the torrent of blood excited into action by the violent & excessive action of the blood vessels

When sudden death occurs from laughing its probably induced by bursting of the spleen an accident which has now & then dissections teach us occurred from other causes, the pain felt in trotting an uneasy horse feels like that induced by running & laughing which arises from an undue distention of the spleen. In all these cases it acts as a bason held by the hand of nature to receive for awhile several pounds of blood in order to preserve the system from disease & death. It is only when the spleen is distended to the extent of its capacity of retaining blood that it imparts pain. The Blood in the spleen is less coagulable than that taken from wounds &c I ascribe this to the force with wh^h it is thrown into it or the feeble action of the veins propelling it back into the circulation both of which we know lessen the coagulable quallity of the blood. The nature of the diseases which produce obstruction in the Spleen. these are fevers of all kinds Dr Jackson says that in all the Soldiers he opened who died of the yellow fever at St Domingo he found the Spleen full & ready to burst or lax & filled with grumous blood—

In nearly an hundred person who died of the bilious tertians of Minorca whose bodys Dr Clighorn examined after death he found the Spleen large sometimes weighing four or five pounds & so soft & rotten that it had more the appearance of congealed matter or blood ~~that of~~ wrapped up in a membrane than of organical parts he also tells us that in a number of persons that died of dysentery the Spleen was putrid induced probably in both cases by the great force or quantity of blood thrown into it by those two diseases Morgagni says enlargements & obstructions of the Spleen are generally found in persons who die of chronic fevers, The excitement of the blood vessels by the undue excesses of the faculties of the mind, produce the same affections of the Spleen This was proved by Dr Greest who found it diseased in seventeen out of eighteen maniacs, It has been remarked that those who die suddenly the Spleen is natural. the sudden distruction of the excitement of the blood vessels in these cases does not give the Spleen time enough to open its friendly door to recieve the excess of stimulus which thus destroys life by abstracting from them for a while three or four lbs of blood

The disease which follows an enlarged or obstructed Spleen and that is hemorrhage, Hypocrates long ago ascribed a bleeding from the nose to an obstruction of the Spleen, Vanswieten attended a patient in whom an uneasiness & tension of the Spleen enabled him to predict a return of the same disease, Lieutaud mentions nine cases of persons dieing of hemorrhagies in whom the Spleen was found diseased from enlargement or putrifaction four of these hemorrhagies were from the nose the others were from the Stomach bowels & hemorrhoidal vessels, few Physicians that cannot subscribe to the connection between hemorrhages & obstructions of the Spleen I think I have observed them most frequently occur from the Stomach & liver; The diseases which the loss of the Spleen whether by accident or design in men & other animals these are an enlargement of the liver flatulency in=digestion head ach & an increased secretion of saliva Urine & semen, How far the Spleen acts by absorbing & suffocating undue impressions upon the nervous system & the mind I know not But I think it probable that it serves this use in the animal economy My reasons are founded upon the great number of nerves which belong to the Spleen compared with its size & upon its feeble sensibility, It is seldom inflamed & when it is its attended with little pain wounds are little painful

We are taught from the use that has been assigned to it
the necessity of bloodletting in all those diseases in which
it has been found to be unduly distended with blood
death is probably in those cases the effect of an ina-
-bility in the Spleen to afford a reservoir for a quantity
of blood Sufficient to lessen the inordinate motions
excited by it in the System; From these we are to
Suspect obstructions to exist in the Spleen in all
habitual hemorrhages especially when they occur from
the Stomach liver & nose & to rely no less on astringent
than deobstruent medicines in our attempt to cure them
I am happy to find there are precedents in favour
of this practice Donatus & Vogel mention cases of
a vomiting of blood being cured by removing obstruc-
-tions of the Spleen, The use that has been assigned
to this viscus should lead us to suspect that many
of the diseases of the liver Stomach lungs & brain
are the effects of obstructions in the Spleen & employ
suitable remedies to remove them I am the more disposed
to inculcate this suspicion from a fact related by
Dr Brost he says of 38 persons who died of pulmonary
consumption he found the Spleen enlarged from two to
six times its natural size in one half of them, This
is probably the case when that disease is attended
with a spitting of blood, It is possiable the efficacy
of a salivation in curing it may depend in part upon its
restoring the natural & healthy function of the Spleen

Of the funcitons of Liver, The design of the liver I believe to be to receive the blood from every part of the body in order to subject that part of it which had not been compleately animalised or devested of its chylous properties to a secretory process & afterwards the pour the product of this secretion mixed with the liquor of the pancreas into the duodenum to be absorbed or otherwise taken up by the lacteals, & conveyed with the chile from the Stomach into the blood vessels in order to be compleately converted into red blood, for the purpose of serving the various & important uses for which that fluid is intended in the human body; These are my reasons first the Liver is present in all animals nearly in this respect its on a footing with the Stomach, It is no objection to this that some animals have no gall bladder & in others that it discharges its contents into the Stomach or bowels for I mean to prove that the cystic & hepatic bile serve different purposes in the animal economy 2ly The immense & disproportionate size of the liver in the fetus compared with adults the design of which seems that nourishment may be carried on exclusively by that viscus without any aid from the Stomach 3ly The size of the liver in adults & quantity of bile secreted supposed by Dr Haller to be four & twenty ounces in so many hours five sixths of which he believed passed into the duodenum, It is not probable this large secretion can be of excrementitious nature, & I shall

prove that it is not necessary to the production of the chile that descends from the Stomach & that it is effused subsequent to the chile having passed by the duodenum 4[ly] Chile has been found in the blood after it has passed thro the lungs, this has been observed when it has been drawn after a full meal Dr Hutchison by experiments on the blood of living dogs also proves it, the chile in these cases partakes too much of the nature of the aliments from which it is formed to be changed into blood in the lungs by the action of the air on it without undergoing a second chylopoetic process in the liver 5[ly] The quality of the venous blood from which the hepatic bile is secreted, It is less disposed to putrefaction than arterial blood taken from any other part of the body This has been ascribed by Dr Coldwell to its being deprived of its oxygen but Dr R. thinks its from containing a quantity of imperfect chyle which we know passes more slowly into a putrid state blood. This was accidently discovered by Dr Hutch[ison] he found the blood of a man in diabetes to be less putrescent than the blood of a person in health In that disease we know the blood to contain a preternatural quantity of chile often so great as to discover itself not only in the urine but several other of the secretions

6th The quality of the hepatic bile Dr Boerhaave says he had tasted it & that the taste was mild Sweetish & watery Dr Haller found a considerable bitterness in it in a man who had been hung & the a woman who had died suddenly, in both cases this bitterness was imparted to it in the act of dieing, by a mixture of cystic bile, The hepatic bile is always sweet in new born infants by a chemical analises even the cystic bile of an adult yields a portion of albumen which is the component part of chile 7th There are many experiments made by Dr Fordyce which prove chile to be prepared by the action of the Saliva & gastric Juice upon the aliment without the mixture of hepatic bile with it — The Dr tied up the Ductus communis of an animal & found the chile afterwards ~~& found~~ to possess its usual healthy properties, The same healthy state of the chyle has been observed in those cases when not only the excretions but the secretions of the bile has been suspended by that torpid state of the liver which has lately received from Dr Pearson the name of Hepatalgia — 8th The Pancreas resembles the Salivary glands in its structure it secretes a liquor which possesses the same dissolving & animalizing properties as the saliva & it pours this liquor so

directly on the hepatic bile in the common duct before it enters the duodenum as to act on it in a concentrated state & thereby to change it into perfect chile. 9^ly & lastly I suppose that a second dys-lopoctic ~~disease~~ process goes forward in the liver from the effects of intemperance upon it, it increases its labour & thereby increases its size this is observed in Scull suckers, It also produces a preternatural secretion of bile particularly when aliments consist of an undue proportion of fat substances which resist the powers of digestion in the Stomach when this has been long imposed on the liver, it succumbs like the Stomach under hard usage & to produce with its diseases the same morbid affections in other parts of the body —

From the situation of the gall bladder from the acute angle its duct makes with the hepatic duct when they form the Ductus communis & from its fulness & depletion I believe it to be wholly to serve the same purpose with respect to the liver which the Spleen serves the whole sanguiferous system that is to afford a receptacle for redundant bile & thereby to prevent the obstruction of the hepatic bile into the duodenum & its regurgitation into the pori Biliarii

Unless this provision had been made for an excess in the secretion of bile to which so many accident causes contribute, the liver would be exposed to disease & disorganization every day, It is possiable the less nutritious particles of the hepatic bile may be thrown into the gale bladder But whether or not the bile appears to undergo a putrefactive process in it, this I infer from the bitterness it acquires while in the gale bladder, The same bitter quality is the offspring of the putrefaction of certain substances, It probably takes place in other secretions of the body, Its true the bile is less putrescent than blood accords to the experiments of Dr Saunders, While I admit the bile to be an excrementitious nature I must allow it serves many useful purposes in the Animal economy in Stimulating the bowels it enables them to propel their contents downwards & imparts a tone which is communicated to the entire system It serves to precipitate those parts incapable of affording nourishment to the body from the chyle perhaps it retards putrefaction especially in hot weather Should the bile exert this antiseptic quality it will only be on a footing with the nitrate of potass & ammonia both of which though the offspring of

putrefaction have a powerful effect in preventing it
Thus we are indebted to our creator for supplying to
us with two viscera, for preparing the matter which
is necessary for the daily waste of our system —
The nourishment of the body is on a footing with
the double senses of seeing & hearing, In cases of
sickness indigestion or long fasting in which the
office of the Stomach is suspended the liver performs
a vicarious duty & when its chylopoetic office is
impaired, the Stomach performs its functions
with double care — while the Stomach is most
busy, the liver from the pressure of the Stomach on
it is most idle, It is only after the chyle from
the Stomach has past by the duodenum that the
liver pours its chyle into it in this way the bowels
& the lacteals are kept in constant state of moderate
tension & activity, The same distention & pressure
of the stomach which impedes the secretion of
hepatic chyle squeezes the cystic bile from the
gall bladder by which it performs one of the
offices I have ascribed to it, to separate the
fecal matter from the chyle, From the situation
of the gall bladder in the concave part of the liver
the pressure of the Stomach is necessary to elevate
its bile to the level of the cystic duct in an erect
posture of the body, In a recumbent posture

the bile descends more easily into the duodenum especially in lying on the back. It is from its more copious effusion during sleep that we are obliged to go in the morning to stool; It is from the same cause that persons with excessive secretion & excretion of bile are most apt to be sick or puke in the morning — Of the functions of the

Thyroid gland the design of this gland I believe is to defend the brain from the morbid effects of all those causes which determine the blood into it with unusual force, My reasons are first upon its situation & structure it is seated on the anterior part of the larinx & is supplyed with four large arteries which return their blood by means of veins without terminating in an excretory duct or producing any thing like a secreted liquor, 2 Its being larger in women than men this was necessary for guarding their female system from the more numerous causes of irritation & vexation of mind & the more acute bodily diseases to which they are exposed. The sensation known by the name globus Hystericus appears to be produced by the diversion of excessive mental impressions from the

brain to the thyroid gland we often observe it enlarged in Hysterical paroxysms
The Blood is composed of three principle parts coagulable lymph serum & red globules the coagulable lymph is the most essential to life serum gives it fluidity & the globules colour the lymph coagulates in a healthy state heat also coagulates the heat of a warm room coagulates it we find it dissolved in malignant fever from the violent action of the blood vessels we also find it dissolved in Scurvy & tetanuses, the arm after being tied up for any time coagulates, the larger the vessel that recieves it & the wider the orifice the sooner it coagulates, The quantity of blood in an ordinary person is 25 or 30 pounds pregnancy is a disease, In Dropsy the lymph is less coagulable than in health when the lymph is carried to the glands its by stimulus, The veins cannot act as Lymphatics, The Arteries act as the very twines of absorbents, some wish to prove that lymphatics take up some things & reject others coagulable lymph is less coagulable than blood Saliva by being long exposed will become putrid in old age serum & tears are acrid, Fat is contained in small cavities & in large muscles its sometimes Hereditary — frequent blood letting

in health bring it on by preventing perspiration
animal life while a weak organic life while
a sleep Castration &c facilitate motion
Fat people have less blood in them than lean
the Dr thinks its from the fat pressing on the
blood vessels, Perspiration is evidently from
the extremeties of the arterys on the Skin, it
consists of water the more labour the more acrid,
the fator is unpleasant when we live on Animal
food we perspire more in bed than out hence
we recommend those that are weak to sit up
In winter perspiration is thrown on the bowels
~~in winter~~ & on the Stomach in Summer
There are two ways of terminating consumption
by a rupture of an abcess or hemorage —
Peculiarities of the Female constitution
all agree that they are smaller the texture of their
body more fine the cuticle more soft upon the
greater quantity of lymphatics the glands less
the heart & liver less, the arterys posess less strength
but contract more, the nerves more sensible & also
the brain more in motion they perspire more than
men, the pelvis different, there is a certain discharg
monthly their abdomen has less motion & there
thorax more, the mind & understanding less

vigorous the memory [for words] more accurate [but not for ideas] taste more exquisite their moral faculties more active but more circumscribed not so benevolent but more harmless [are] conscious more delicacy which is an instinct Mothers despair of children sooner than fathers [hence they insp[illegible] of giving] [put into their hands] their judgement less they have more fortitude but less courage they divulge secrets they are more sensible to the venerial appetites but modesty from instinct we find as many female minds in man as masculine in women a shameless woman is the worst of men; The monthly discharge commences in warm climates about 12 & in the middle about 14 years the breasts begin to swell the voice changes & the eyes get a lustre not known before a Mrs Case in this town menstruated until she was 80 drunken women menstruate later than sober until 60, A woman unmarried menstruating at 90 after ceasing 60 years the menses stop in those that drink. the quantity at each time is from three to five ounces in smell stops during pregnancy there are exceptions to this they are more irritable while & while menst[illegible] Some women predict the weather puls after excited it is a diseased morbid excitement, its organized matter occasioned by the inflamation continue running while pulmonary & other diseases

exist, the cause is plethory, its generally from laxity of the vessels of the uterus, the appetite is not impaired Bloodletting dont prevent the coming of the menses; the discharge is from the arteries not the veins; the blood discharged at the right crisis dont coagulate but if from disease is coagulable pregnancy takes place during obstruction, women more liable to pregnancy immediately after or before menstruation, the uterus is the size of a pear but from age becomes less & also after menstruation is small, the Venerial appetite is felt when the menstrual Eruption appears; Brutes at certain times discharge a mucus, the uterus is inflamed—

The age of Puberty. The system undergoes a great revolution at this time of life the bones of the nose enlarge hair appears on the pubis & beard app^s the voice changes Dr Haller mentions a case of a boy of three years that felt venereal appetites & had beard. the semen masculinum is secreted we observe also a change in the viscera by distention, Disease dont destroy the Venerial appetites nor old age, the female buffeloe allows its head to be cut off & lays its eggs after—
a change of country has an effect on women the Dr

mentioned a woman that was transported to botony bay & aged 70 who never got pregnant before she went there & got pregnant there she always led a life of prostitution, pregnancy has different effects on different constitutions in some a pain in the feet strong urine pain in the back & loins &c the Dr knew a lady that when pregnant had a tendency to stealing The female body may be considered as diseased while breeding; Bastards resemble their Fathers more than others Mothers contribute more to the talents of children than Fathers bastards are men of more active minds than others in consequence of the minds of the parents being more active at that time —

The means of preserving health

Aliment is divided into animal & vegetable the appetite must be in harmony with the stomach habit which acts in every part of the system & also on the stomach, Man like the horse was intended to eat always the constant action of a little food in the stomach would prevent the bad effects from large meals — the use of Tobacco & Spirits are caused by long fasting which require a stimuli; Rest after a full meal promotes digestion —

the portugues sit down between two chairs after eating hearty taking bitters before dinner is bad for it increases the appetite to too great a degree & also drinking at dinner is not a good plan as it increases or diminishes the appetite

a horse requires 16 lb of Hay every day to keep up its flesh a child will require according to his size half the quantity of Animal food will nourish more than treble of vegetable you are never to eat after you begin to deliberate, Food ought to be moderately warm, abstaining from accustomed food for a few days, the holesomness of food depends on its solubility in the stomach—

the females of Animals are easyer of digestion than the males & the castrated also more soluble, Young animals & old are harder of digestion than those of A middle age, Pork putrefies sooner than any other, hence its easyer of digestion than beaff & mutton &. — Beef & Mutton are more soluble than poultry a domestic animal less so particularly those that take no exercise, The lean of fat meat is easyer of digestion than any other the Pig the goose & the duck ought to be dressed the day after they are killed, Meat preserved fresh in water ought to be dressed immediately

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after taking it out of the water, the more blood
the easyer of digestion meat ought always to be
well done & well masticated, poultry with the
intestines retained in them is a means of increasing
putrifaction Thunder & lightning increase
putrifaction Oysters & crabs are larger in the
Moon roast meat more nourishing than boiled
& also more Stimulating, there is not that difference
in the ages of fish ~~the~~ With respect to digestion that
there is in Animals even roasted oysters are very
hard of digestion fish affords less nourishment
than flesh, Eggs the white according to experiments
is vegetable & the yellow Animal substance the
yellow is most putrifying they should never be
boiled too hard, Cows give most milk on a
little grain, well rubbed & gentle exercise —
A tea Spoonful of Salt after dinner encreases
digestion better than drams Vinegar & pickles
also better than cordials, Fish requires some
Spice to help the digestion of it Mustard & horse radish
are to be used with caution, One Ounce of Sugar
is more nourishing than double of any other
oils next & a pound of salt meat is also more
than two of fresh, Tea & Coffey have no nourish-
coffey acts on the arterys & brain & tea on the nerves
these are both stimulating —

Clothes should be accommodated to the weather not to the season bed clothes should also be accommo=dated to the weather, its better work with the shirt off than on it gives room for evaporation —
The general time for childbearing is Nine months some more some less Dr Haller mentions a case when there was perfect birth after six months

Pathology

Lecture 1st This treats of the causes seats & signs of diseases, by disease is meant a change in the proportion or motion of the solids in the quantity quality and place of the fluids the causes of diseases are remote proximate predisposing & exciting they are all links of the same chain & several of them are sometimes combined. If cold produce a fever it will be the remote cause the debility produced by it will be the predis=posing, the exciting & convulsive action in the arterial system the proximate cause, debility is the predisposing cause of all fevers its acquired in infancy by washing children in spirits diet by the intemperance of mothers by dress use of opium premature study the despotism of school masters a predisposition to disease by tales by the amusements of children, In youth adult &

old age by many things debility is either direct or indirect. If I fix the point of health at 50 on an imaginary scale when there is an exact balance of excitement & excitability the sudden diminution of excitement produces excitability in excess by a long continuation of debility either direct or indirect the excitability is exhausted, the total loss of excitability is the proximate cause of death, many however die from the total loss of excitability, debility is the cause of all the evil physical & moral the former exists in the human body and the globe the latter in the mind, in the human body debility is an abstraction of strength diseases are possitive effects of a negative cause the plague & small pox probably answer some valuable purpose in the animal economy contagion is not a possitive evil a small quantity of it put into a bottle would act as a cordial. Opium is considered the safest medicine yet if a certain quantity of it is taken its a most dreadful poison the food of some animals is poisonous to man, diseases of the mind consists in debility & abstraction of strength from the will

There is an analogy between the mind & body debility produces disease in both. this debility is followed by increased excitability; excitement in excess but not irregular is not a disease such an excitement is produced by dancing running &c But the debility induced by these may become a disease all diseases are partial in fever the blood vessels are affected in dysentery the bowels &c no disease affects equally all parts of the body to equalize the excitement is to remove the disease. There is but one disease that is irregular excitement or morbid action this is the proximate cause of every disease, obstruction is not an original cause of disease its only a symptom, but by its pressure & continuance it forms a source of a new disease in that state which consists chiefly of in predisposition to debility bathing the feet & producing sweat will often prevent its progress the nervous are affected corporeal & mental the muscles are in insensible but great contract of the fibres Negroes bear operations better than whites, I knew a family that all become delirious at the slightest cause, mania one acquired hereditary predispn to hole families alimentary predisposition in this the absorbents are perfect in their operations, × A certain predispn
× in some nations a predisp to partl diseases

to eruption from applying the least touch & the
cutaneous predisposition the difficulty with
which wounds & sores heal, this proves one or
other of some disease exist in some body where is
the person that passes a whole day or night without
pain or
some deviation from health, no such thing as
its as rare as perfect happiness
perfect health, the hepatic diseases in warm
climates the nervous & cephalic in those tending
to epilepsy the Nervous & arterial are connected
the arterial in middle age the cephalic in old
some boys at the same exercise were attacked
differently according to their different predisposition
hence from the waste of excitability some people
are not subject to contagion as Dyarrhea Gout &c
suppose a part of this to be abstracted debility
from abstraction will take place if suddenly
increased debility from action will take place
debility occurs from those in the middle of night
morning & evening hence children & old people are affected
more than people in middle life Dr Franklin
ascribes disease to eating & drinking, By the
Proximate cause the Dr means disease itself
the action of cold is the proximate cause debility the
predisposing cause, diseases are native or acquired
the sang Bilious melancholy & Phlegmatic are native
the Dr objects to all these appelations from their
conveying wrong Ideas as billious would convey

a disease of the bile not the liver & so on —
Man alters at different periods, the same remote
cause acts on different people diff^t its of consequence to
observe this in Gout we see it attacks different parts
it is necessary to know the predisposition before
we prescribe, the predisposition is attended
with excitability & debility, Nature & quack
remedies often perform cures by time which wastes
the excitability & brings on healthy action, The
prevention of disease, when debility is induced we
may expect a predisposition to disease all parts
of the body contracts costiveness is induced which
depresses the bowels depression objects to exercise
no sooner does the iron on top of a house attract
lightning than that depression attracts debility
they are both present in different parts of the
body, disease is produced by want of equilibrium
in the system such is the loss it brings on that
Soldiers Sailors & labourers become sick from leaving
off their accustomed work hence in harvest there
is little sickness but immedi^y after from suddenly
allowing ~~preventing~~ the accumulation of excitability, the whole
body may be compared to a large muscle exposed
to stimuli, Pain is only a symptom of disease,
equable & universal excitement is health, Water
in the brain or ventricles is not the cause but the
Effect of the disease —

Again the proximate cause of disease is debility
this being produced next depression in this
State the Skin wrinkles &c, There is a material
difference between debility & depression,
you are not to think they act seperate one
acts in one part of the System & they other
in another, The loss of equilibrium in the
system will bring on debility & disease
is produced the Rheumatalgia & Rheumatic
for the cronic stage of Rheumatism, In
exercise its excitement is regular, Disease is alway par-
=tial in Morbid excitement or irregular
action the hole system is more or less deranged
& associations more or less destroyed, The
Dr compared the hole System to a Ship
in a storm, the different form of disease
convulsions in the blood vessels from fever
Spasm the colic is attended with preterna-
=tural spasm, Suffocated excitement is
distinguished by the absence of a tense pulse
& by its being cured by heat & by abstracting
some of the Stimulus, Many forms of the
are produced from the same cause, Morbid
excitement he compares to fire, Unless ex-
=ercise be general it will bring on disease
he compares it to navigation as when helm
is let go & not attended to the ships goes at random
the same way with the system —

Spasm. Convuls

There are Six forms of diseases & different
other forms & grades of these, There are certain
primary causes, all the pains &c seems
to be an effect of the fibres, all is from one
cause morbid action or excitement, there is
scarcely any form of disease peculiar to any
~~form of~~ disease & sometimes is seen in diff.t
parts of the body at the same time, they
often succeed one other, The Opperation
of diseases, is debility the cause of disease
therefore use a Stimulus previous excitement
is an accumulation of excitability, Does
disease exist in irregular action then learn
to equalize it, if partial learn to abstract
from that part this is Depression by Abstraction
The effects of Disease red particles of
blood —— as in othalmia in pneumonia
&other from a mobility to take on action
congestion being in the veins, the third to pro-
duce unnatural secretion & excretion to produce
irritability & certain changes in the blood
brings on death gangrene &c —
The Seats of diseases, many diseases are dumb
as liver complaints how many diseases of the
Stomach also attack the head, they change
with the weather, & the administration of
medicine is in these cases Speculation

Sometimes
Dissection will not tell us where a disease is situated for sometimes a disease of the head is cured by purging when the pulse refuses intelligence & while the other parts of the body direct us where disease is situated, The whole arterial system is a simple unit

The Signs of disease these changes for instance the yellow fever differs in different seasons, The Dr considers all Nosology as useless & prejudicial, & one of the proofs of the unit of disease is that black vomit takes place in gout as well as yellow fever another sign of disease is the tongue countenance & also the symptom of pain stimulating & distending a part causing a solution of continuity, pain in muscular parts extends them internal chemical applications as acrid bile produce a spasm in the stomach Altho' pain is a unit it still differs from disease, The Brain suffers from ~~the~~ its sympathy with the whole system a single nerve is more painful than a collection of nerves The Stomach is next the head in billious fever the head sympathizes with the stomach & system

pain is of an attractive nature, pain
in the back & bowels seldom prove fatal
women feel pain more at the time of men=
=struating & conception than any other time
constant pain is contrary to nature
pain is felt most at the extremities of the nerves
pain attracts disease from other parts
strong robust people bear pain worse than
delicate people from an abstraction of excitab:

itself
constant pain destroys
itself pain is felt in places remote from the
part affected, related to pain is anxiety
Nausia is another sign of disease lost of ale
a change of Pulse, In Tetinus the pulse
is languid & weak the pulse is the dial
plate of disease, Diseases are said
to be divided into chronic & acute they are
also divided into those that are epidemic &
those communicated by infection, the former
are communicated by the air the other by
innoculation, the air that favours epidemics
is a cold moist air the Hot & dry air also is
a favourable, the air is Hot at 96 warm at 75
moderate at about 45 & 50 Heat affects the
arterial system with debility & depression

Heat increases the irritability of the ~~system~~ muscles
hence tetinus affects in warm climates
when heat is uniform insensibility weakness
of the understanding &c is caused the Senses
are particularly affected: It weakens the
sense of smell & affects the sense of hearing
Heat causes obstructions of the liver according
to Dr Clarke It increases secretion & excretn
Women cease to menstruate sooner in hot climates
than in cold the perspiration more acrid
in Summer than winter A Summer cold
more dangerous than a winter from the
perspiration being thrown on the lungs
or bowels which last causes dysentery &
dyarrhoa — The relative effects of heat
the most healthy weather is equally hot
there may be moist air without rain
There is no such thing ~~in nature~~ as dry
air in any country morbid effects the yellow fever was
inflamatory when there was no moisture
in the air, the body suffers less from passing
from heat to cold than from cold to heat
health & longevity is increased by emigrat=
=from a cold to a warm climate

Abstinence lessens the Morbid effects of heat it acts differently on people in different situa= when there is a sudden abstraction of stimuli or a sudden accumulation they times will be unhealthy, Moisture combined with heat increases fever; Heat is rendered more debilitating when applyed by wind, Heat is rendered more hurtful in June & July the Morbid effects of heat ~~are~~ is remarked on old people, The Morbid effects of cold cold is a negative quality acts as a sedative by abstracting heat ~~from~~ the pulse of those in cold climates is not so frequent as in a warm climate, The atmosphere is a pre= -disposing cause & exciting to diseases, darkness & fear acts a secundary cause cold when very intense brings on pain in the chest & Hemoptisis predisposes sores to bleed causes the muscles to become languid, people in cold climates become enslaved It dulls vision, It in= vigorates the appetite, cold long stopping the pores of the skin brings on cutaneous eruptions it gives a dark colour by long use, The Morbid effects of cold are lessened by uniformity its also lessened by continuance

The great cold of the blue mountains in Jamaica is occasioned by the heat of the place under the cold feels greatest according to the heat of the place the pass from cold is the cause of diseases in hot countrys, Some nations when wet to avoid cold dips themselves into the water which causes reaction It acts according to the greater or lesser degree of excitability. The Morbid effects of cold is increased by wind & also by moisture It affects drunkards more than sober people & also acts more in the sleeping than waking state the more frequent attacks of fever at night is caused by cold, colds are more frequent in Summer from the body being impregnated with miasma It may be considered the remote cause of all diseases Baron Humbo ascended a mountain in South America twenty thousand feet high which caused blood to flow from his ears & pores of [illegible] Skin, the rarity & density of the air produce a relative effect on the System, old sores & Rheumatic pains are better according to the density of the air

The Winds most of the United States are hot the South winds affect Rheumatism there is less moisture in March than any other month the insensible Qualities of the air the matter that conveys influenza is ranked among these the matter that forms the inflamatory constitu=tion of the air is also one of them its necessary that low grounds should be dry to this there are some exceptions, When marshy grounds are entirely covered produced no bad effects, heavy rain & frost destroy puts a stop to diseases of an epidemic nature, Ideo Miasmata want of cleanliness a sudden mixture of strangers, air from stagnated or putrid Vegetable or Animal Substances the fever of debilitated persons is more fre=quent & the system predisposes to miasma they act on the arterial system in the form of typhus, In November you will meet Dysentary &c these myasma induce scurvy contagion is produced by excretions Dr ... supposes them like marsh miasmata the differ^ce^ occurs in cold weather from debility

the pulse is seldom above the Typhoid it attacks the young & Robust the pulse puts on a remittant tipe, Frosts increase Hospital fever no climate either hot or cold is necessarly healthy if the duss is not acco=modated, Matter inducing Influenza is some irritating cause that acts from its quick motion not from contagious causes for we cannot trace it to Sailers at sea having no intercourse with those affected the Dr knew a hole family affected with Palsy & sore legs dozens in the same famy affected with intermettant fever this cannot be by contagion but being pre=disposed, Small pox Measles chicken pox & hooping cough are the only con=tagious diseases these exist themselves the matter in lues itch & as infectious the matter from the lungs in being possesed of a spot is more unhealthy & at night than in the day, the lungs of Children if they breath will sink in water, the Vapour from Springs is often unhealthy air is rendered unhealthy by Sulphur

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A room heated frequently by wood gives head ach, in all countryes the proportion of oxygen is the same Dr Sydenham supposed it to be produced from the earth particular situation a new country is always healthy wet ground is not unhealthy if not exposed to the sun no exhalations will take place of consequence a new settled country is always unhealthy, the Dysentery is more common in the country than town from the former living mostly on vegetables the effect of change of situation Europeans arriving in the middle States escape fever the first years & are attacked the next, some people living in a marshy country escape fever but when they come to town are attacked from new impressions acting as an exciting cause on the predisposition old settlers are affected when they leave them with fever Sailors are affected when the arrive near land Substances floating by means of the lungs & nerves to the head Saliva to the Stomach & bowels absorption not having cause of a thread infected with Vaccine matter & taken

into the Stomach caused no cow pox miasmata of all affect the nerves & brain, the effect of other parts of the body are according to the violence of predisposition the nerves from the nose being affected, an experiment of Dr Blacks on fixed air proves that fever not sufficiently dont act primarily on the Stomach but thinks its more like Small pox, He excludes from epidemics such as are produced by stagnated water human excretions & the insensiable qualities of the air never go farther than ten yards from the parts infected, From the atmosphere all diseases are according to the sensiable quali=ties of the air increased more or less in their violence, The same thing that causes the putrefaction of Vegetables will cause influenza, No two diseases can exist at the same time as epidemics One predominates over them when the Small pox reins the fever has the appelation of Variolus fever, the Dr was sent for to set a broken leg in Water St at the time the Yellow

fever raged in that quarter from supposing the System charged with the miasma he ordered him to loose some blood & a purge this being known by some of the faculty gave out that he was mad; the Dr calls the raiging disease the royal disease The Small pox sometimes makes the plague retreat cold weather sometimes diminishes the violence Yellow fever & sometimes increases epidemics epidemics appear different at times, there is an autumnal Yellow fever with black vomit the same disease affects different parts of the body at the same time, If a nervous predisposition the head is affected & so on Epidemics affect hole cuntries without an exciting cause they are local somtimes & affect people of one cuntry & even one township The blacks are not subject to yellow fever in Virginia & somtimes attacks a particular age or sex, Rejecting of Saliva causes debility & predisposes to disease, the same epidemic affects people differently according to predisposition as the late influenza proves, they also change there type with the weather,

The same epidemics are different in different parts of the country & attack people in different situations of life, Epidemics sometimes attacks the brute creation Horses Dogs & cats remarks, Preceding epidemics a universal calm of the air disease among cats frequently precede epidemics birds are also affected fruit are destroyed House flies disappear trees emit a bad effluvia & meat putrifyes quicker during the yellow fever Women are more apt to miscarry during the fever from the irritation of the air, Epidemics spread all over the globe & often in large Cittys & Towns, they change so continually that Dr Sydnahm says that we must be always Students of Medicine, Thunder & lightning has a wonderful effect on the system & is called Thunder Phobia I knew a lady when thunder tooke place was convulsed & could only get relief from drinking large quantities of Spirit which never made her drunk excitement & excitabillity were absorbed & exhausted, Sound except of causes disease parturition is brought on by noise —

Light excess of produces inflamation of the eyes & blindness; Darkness has a great effect on the System where is the Hyppocondriac pat that has not got worse on a dark day ~~for~~ More People die by night than day from the effect of light in the day. The Moon being full has an effect on the System Eyster are fatter during this time H.   returns with the Moon The Dr has a patient that the paroxism of Gout comes on at this period parturition comes on at this time Madness is increased by the fullness of the Moon But there are exceptions to this, The Mind looses its pla=cidity by the fullness of the Moon, Suicide is more frequent at this time than any other Epilepsy is affected, The Dr found that as many patients of his died of epilepsy in lunar as well as non lunar, An eclipse has a great effect on Patients, the body feels the diurnal revolution of the earth, we are to prevent our patients from taking medicine at night

Aliment & Drink, These act by quality & quantity & also by distention, the Stomach when too often distended & looses its tone too much nourishment thrown into the system brings on Plethora & apoplexy, too little also brings on disease Dr Haller mentions of people that lived on two ounces of food in the day for many months water contains something like nourishment Children often suffer from a change of diet Influence of Aliment. Vegetable diet induces disease universal weakness & irritability of Diet Habit tranquelizes the mind diet causes Dispepsia dysentery a defficiency of the venerial appetite lessens the heat of the body & size without the bloom of health there are many articles of diet that have a peculiar effect on the system Beans cause flatulency &c & — change from a vegetable to an animal diet induces disease first the proportion of food 2d dressing meat immediatily after

being killed is bad, Fish kept for any time will cause eruption Mastication being ill per=formed long fasting, the excessive quantity of food will be disolved by exercise in quantity, Much food after long fasting causes disease Valetudinarians feel this also costiveness from being confined the system is highly excitable, From fasting a patient is diseased the excitement changes into excitability & will not after this crisis bear any drink eating hot meals predisposes to disease also Aliment from not digesting in the Stomach causes diseases Dr Haller mentions where food remained in the Stomach for months from one week to Seven Months without digesting food dressed in Vessels of Copper & other metals deletirious to life, the Dr knew hole familys affected at once from this cause, the dressing Phesants is said to have poisoned a Judge of this city But it was from the birds feeding on Po tree Fresh meat causes diseases Salt meat mixed with fresh is very healthy, Salt meat without vegetables causes Scurvy, Milk such people as are disposed to Plethora should not use it

Butter causes erisipelas, Salt is seldom taken to that extent to do harm Vinegar in small quantities is good to increase digestion in large quantities its destroys the coates of the Stomach & causes Gout Cold &c Mustard causes Gastronemii Rheumatism &c Sugar is the the most nutritious substance we know when taken in large quantity is unwholesome & causes dispepsia The Spices when taken in large quantities is destructive, Tea & coffy was mentioned formerly, The Morbid effects of drink. Water produces diseases by its sensiable qualities, Dr St Witts the have bad teeth from drinking cold water when large draughts are taken it produces many deaths see the Drs Medical inquiries — General Waine was attacked with Spasm by drinking Punch with Ice & caused an intermittant fever Simple water being hot produces less harm than when in the form of coffy, & sense this City was supplyed with good water we have less bowel complaints drinking water at bed time & in the morning & between Meals produces dispepsia & relaxes the Stomaich

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Water passing over lime is subject to com-
-municate bowel complaints, Wine increases
the pulse & then causes intoxication it brings
on cronic Gout, When drank at meals its
less injurious Beer produces Gout gravel &c
people leading sedentary lives are more subject
to gout than the laborious Cyder produces
the same as to Gt See the Drs Works ——

Diseases induced by Dress first by its quantity
& disproportion in cold or hot weather, the greatest
number of diseases comes on from wearing clothes
too long after summer habit has a great in-
-fluence on the system the fashion of dress often
causes diseases particularly among ladyes
many disease of the brain is brought on by
wearing tight collars & garters cause large knees
Cotton will preserve heat wet or cold very diff
from linnen made of flax ——

Poisons any thing taken into the stomach
& destroys life is ranked among these, they are
Mineral & Vegetable the latter are Hen bane
Night Shade & Conia Maculatum &c the Mineral
are Arsenic Copper Zinc Antimony Lead &c &c

Mercury in certain proportions, different
poisons act more on different parts some
act on the mind only many poisons act
on the brain which cause instant death –
some on the nerves & destroys sensibility
Worms cause disease more in Autumn than
any other season of the year –
The Morbid effects of obstructed perspiration
are debility catarrh &c it also affects the bowels
& causes costiveness from want of bile it produces
Jaundice from the bile being obstructed
Dropsy from want of absorption –
Disease from too much action man was made
to be active Women suffers less from being inaction
Too much Sleep causes debility from abstraction
Many can do without Sleep when affected
by a stimulus Wakefullness when siting
up will cause swellings of the legs
The Venereal appetites & passions of the
mind, The Understanding thinking is
a stimulus it weakens the nerves &c The
stomach & bowels are affected in the cronic
state but when suddenly attacked the
the nerves & brain are affected primorally

the less the understanding is improved the stronger the passions, The Memory is injured by play &c Love in this there is an increase or abstraction of Stimulus, Joy is a strong Stimulus & causes death sometimes political Joy is very great as in the doorkeeper at congress when he heard of the independance of this country he droped dead it brings on de=pression, Joy is more tense when the exci=tability is accumulated by previous Fear Anger when simple is a powerful Stimuli Dyarrhea is produced by anger, Grief its sudden effects is despepsia the cronic effects never cease to produce Hypocondrs an over quantity of grief dont allow of tears there is a point above & below the sheding of tears, those under grief sleep better than at any other time it effects the countenance Fear produces disease as Dyarrhea bloody sweats & a great discharge of urine &c It affects the hair he mentioned a case where the hair of a man became grey one night Fear causes an accumulation of excitability in the system

Ambition acts like a perpetual blister knows no holy days, passions have their different attractions, The indulgence of the Venereal appetite when too young is injurious old peoples passions increase between 50 & 70 hence men after Sixty become bawdy than young men, The Venereal appetite brings on diseases by that infernal practice onanism also the excessive indulgence lawfully or unlawfully It changes the nature of both sexes —
Government has a considerable influence on the System, ~~hence~~ the want of that Stimulus in Slaves called Liberty & hence longevity is less common among them —
Negroes have less sensibility than whites & bear operations better, He compares our elections a chimney in a room that conveys away the resentment of the people
Occupations Labourers manufacturers &c are not very long lived Carpenters are the longest lived from working in the open air Sailors are subject to Rheumatism

Dysarthea &c Soldiers to Dysentery &c &c.
Weavers Tailors & Shoemakers & Bakers all
those that work in Sellers are Subject to
pulmonary consumption Painters are
Subject to an affection of their fingers from
the lead & also Subject to Colic from the
same cause, Studious Men from an
exertion of the Understanding are subject to
complaints of the lungs &c & & from riding
too much are generally costive & subject to
piles, Amusement, from excess injurious
to women from standing for hours at a glass
& under the hands of a hair dresser as many
more, also the bad air of a room when crowded
& according to the nature of the exercise such
as dancing & are bad Tragedies has no good
effect on the Mind, Customs drams
in the morning lessens the appatite taking
wine or Spirits in the morning or before dinner
does the same, Unhealthy Ancesters
are divided into Hereditary & congenial
consumption with a contracted chest & long head
is hereditary Consumption is Hereditary from
the Father & Madness from the Mother

Gout &c this depends when transmitted upon an irritability of the nervous & arterial System some of these pass the first & second generation & attack the third, When Rheumatism is Hereditary its more difficult to cure The same diseases affect hole families from the Similarity of living air &c, The habitual use of purges causes piles, In France purges & Glysters are the hole of their Materia Medica Glysters destroy the tone of the lower parts Vomits are more frequent in England than any other evacuation they destroy the tone of the Stomach, Sympathy & Anthipathy convulsions are communicated by Sympathy Stuttering is often by Symp-y particularly if we have an esteem for the person affected, Immitation is deep seated in the mind of Man a child was brought up in a room where there was a dog only he attempted like the dog to catch flies with his mouth. There can be no sensation without motion the operations of Ideas have a wonderful effect on the body, Epilepsy is often cured by changing to a foreign cuntry & & causing new impressions —

The Dr saw Hydrocephalus internus caused by a blow on the head 18 months previous to the attack, In the Hospital there is a man named Campbell that became Mad 7 years after a horse had kicked him

The predisposing cause of disease which are Artificial. Infancy is from birth to third year a predisposition to Hydrocephalus internus is known by a large head to Hyd.s externus the cartilag.s & state of the head. Children are more irritable than sensible childn are more subject to bowel complaints in con=sequence of their irritabillity from their delicate Skin they are more subject to cramps from 7 to 10 one half the children die it arises from an increase of vital stimulus & the system not able to bear it a greater proportion of boys die than girls, Puberty is subject to bleeding at the nose, females are more disposed to a vitiated appetite than males, from 18 to 30 & 5 predisposes to plethora & Pneumonia between 40 & 57 more die than any other stage of life after 57 the body begins to decay between 60 & 70 the teeth begin to get loose

Many becom drunkards at this stage of life from their excitement becoming less & their excitabillity greater, between 80 & 90 the quickness & hardness of the pulse com-mences the excitabillity of the arteries is greatest, Single & married state those that are unmarried are subject more to diseases than the married more of them die than of the married, Barrenness predisposes to diseases, the sudden abstraction of the child from the breast causes a morbid effect in the bowels from 50 Women are predisposed to plethora, Deformity is the consequence of disease preternatural hight or the reverse is also a consequence of disease Men of low Stature are short lived Few men that become fat before forty are long lived, Women suffer less from deformity than men Seven Months children bring weakness into the world with them this is what is called natural The causes & Phenommina of death, they are the abstraction of stimulus or certain poisons the solution of continuity by wounds, death is attended with a

morbid excitement in some part as the brain
sense of hearing in the mind Trachea or glottis
Stomach Bowels which was known by Dysenter
in the bladder Muscles nerves Arteries or
Lymphatics hence an effusion before death
& also in the Skin hence eruption appears
before death, Morbid excitement may exist
in more places than one at the same time
its attended with pain some die laughing
or singing death from old age is attended
with a degree of pleasure, the symptoms
of death appear in paroxisms the
faces & urine are discharged involuntary
& respiration becomes voluntary the cold
begins at the feet the Dr never knew an
instance when the coldness commenced
at the wrist the patient to recover
the pupils become larger & sometimes
~~larger~~ smaller sometimes the patient
dies of debility, the part that suffers
least violence retains life the longest if
it be the brain the senses are retained longest
after death we find colour fluctuate
for some time threw the body, the bowels
putrefy first, then the muscles & lastly
the brain the more sudden death the sooner ~~putr~~ fact

Therapeuticks or the method of curing diseases, those we passed over are only the raw materials of the science, all truths must be got to by a stair case & must be ascended. Medicine has improved according as it has been studied as a science. The reduction of deaths in this city is proof of its improvement in 71 when the popul.n was 30.000 there were as many deaths as now though the population is at 100.000 at both times it was but 1200, between 1806 & 5 the deaths was 1600 & last year only twelve hundred, In all parts of the United States its the same, A knowledge of the cure of diseases & the causes on the treatment of diseases, An inquiry into the powers of nature, By nature I understand physical necess.y & nature cryes out for cold water in fever but not in all cases, When the disease is overpowered with disease & sometimes nature is inactive, there are cases that are over balanced by the danger & cases where pain is less. Sydenham was of oppinion that nature

was not to be trusted in violent diseases —
What effect has bloodletting &c in apistring
nature there is no resiprocity of action in
the system, H. compares nature to a drunk
=en Man confined in a room & staggers about
unable to find either door or window
Folly & Vice are attendants on those that
follow nature We are to treat nature as a
noisy dog or cat in a room take & turn them
out, You are to treat epidemics according to
the tendancy they have for instance if it
tends to vomiting emetics are to be given if
in the throat throw in Mercury if the
bowels Purges are to be given, If Brutes are
affected examine their Symptoms, Nature
may be compared to a post that directs
us on our way but never conducts us
farther, by opening one emunctory its the
same thing as opening all, Its always
dangerous to stop the discharge from the
heads of children without substituting
Dyarrhea or stop the discharge from piles
without substituting some other evacuation

Rheumatism should never be cured when Mania precedes it. He knew the case of sore legs cured to cause death, Ascites should not be cured by taping without great caution. An habitual discharge from the feet of sweat should not be prevented; The itch should not be cured when an discharge from habit becomes necessary to life, Diseases differ in the Country County & Town. climates have a great influence on the diseases, No two successive epidemics put on the same appearance in diff^t Seasons, The ulterior force of diseases, Natural habits should attended to The natives of cold climates are more affected in the West Indies & more die there from the Physicians treating them as if the had been natives, Twice the quantity of bark is requisit in the West Indies Individual Predisposition is to be attended The rich & idle are more sensible than the labourers some have a tendancy to some particular disease —— Idiosyncracy —

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The Habit & diseases subject to should be enquired into & mode of curing them particularly cronic diseases & those the Ancestors of the patient was subject to Hole families of Children are subject to the same diseases; The age of the patient should be taken into consideration Men are ~~subject~~ predisposed to Dysen^ty Rhumatisms &c Women to catomenia & Children to worms There are certain diseases in the body & mind that are not made known to the physician; The removal of the remote cause will not ~~remove~~ cure a disease as in wounds titinus occurs after the wound is healed many cures are said to be perform^ed by complying with the longings of the pat^t nature is not to be consulted on these occas^ns But it might be of advantage in the convale^cent state for people of every country have a prejudice in favour of their native aliment or drink an English man for Beef & Bear an Irish man for Potatoes flummery & a little whiskey & a Vergeniean for salt meat & Indian corn & a Scotch man for Barley broth —

The difference of preparing Medicine is of as much consequence as in aliment as opium will not agree with the system when the tincture will Bark likewise will not sit on the stomach when the tincture or infusion will also Iron is more effectual in substance than any other way

Medicine should not be desisted from because they have not good effects soon but ought to be persisted in the use of them By preventing the patient from thinking on his complaint will often be of service Dr ~~Bent~~ Allenden was remarkable for this

The subject & tone of conversation should be agreeable to the complaint of the patit gaiety is not to be adapted sometimes

The expence of Medicine is to be considered we have need of prescribing cheap Medicine We should always prescribe for incurable complaints, We are never to give a patient up & never to give an inch of ground without disputing it, In vane do we contend unless we gain a controul over ~~our~~ our patients ~~the~~ Respiris is to his enquiries on the cause of Death

We should always if possiable administer the medicine ourselves & not trust to friends We should never advise our patients to make his will unless we are asked this afects pat^ts & brings on death sooner than otherwise Abstinance has a great effect on the System We may take a fort by famine so we may take some diseases by abstinance We sh^d always watch the interferance of Quacks & friends fond of advising

The Choice of Medicine the powder of human skulls were formerly given with many other absurde things; All diseases that are curable will be cured with a few a painter once saw in a drawing a great deal of superfluities or letters which he advertised for sail So you may in a patients room attended with some physicians advertise bottles & medicine for sail there is as great a diffe between those Physicians that give par=ticular Medicines for particular diseases as between the Chinese & Roman Alphabet one had several hundreds & the other few

The Composition of Medicine is different
one Compound the other Simple Some practi=
=oners prefer the latter & some the former
there is more fallacy in the theory of the opperations of
Medicine Among Physicians than in any
other branch of the Science Dr Cullen &
Dr Fordice differed in this branch one thought
that Tartar Emetic acted best when it prod^d nausea &
there is no doubt but compounds act better
& the other which was Fordice thought the worse
than Simples he accounts for it thus
he knew a lady that could not hear unless
there was a drum rattled near her which
excitated the tympanum the same way
the Bark & Opium act together when they
would not when seperate, Neatness &
cleanliness & correctness in puting up
Medicine are particularly requisite
Consultations are useful Iron Sharpens
Iron so Man Sharpens the intelects of
Man its also necessary in all doubtful
cases & dangerous & long continued, We
ought to prefer those that agree with us
in theory for when its otherwise we
find it injurious to our patients —

The different Medicine act as Sedatives & Stim-
-mulant the Stimulants act in different ways
the Sedatives act directly & indirectly they
are Bloodletting Cold fear abstinence &c
the Indians fast before battle we induce pain
better after fasting & living on Vegetables
Dr Percival relates a case of asthma cured by
abstinence famine has a wonderful effect
in clearing & cleansing the bowels these are
the direct Sedatives, the Indirect are
Cathartics Glysters Tobacco &c the Cathartics
are those that pass off by the anus such as
Castor oil Glysters Rhubarb &c the
Drastic are aloes Gamboge Calomel Jalap &c
these act as scrapers to the anus, When the
bowels are distended with feces the former
are to be given when the bowels are not able
to act the drastic are to be given, the com-
=munication between the skin & bowels is
increased by these last, strong purges
in the yellow fever increase perspiration
the body is heavier after a purge from the
absorption of air, In case of piles strong
& drastic purges should never be given

Action Purges reduce the System by lessening the irritability Acute diseases require quick purges, If purges require to be used for any length of time they should be changed for others as one used continually obliges it to loose its effects on the System, Solid food Should not be taken after a purge, A Mild purge increases perspiration more than a drastic, Injections irritate about six inches of the bowels & purges the hole of the intestines Catharatic are forbid in debility & often bring on intermittants, Emetics act directly & indirectly on the Stomach, prompt emetics such as tickling the fauces with a fether & those that act weak but certain as Ipecacuana Such as act forcibly as Tartar Emetic, Ipecacuan is best for discharging bile &c & Emetics remove tumors by increas=sing the action of the absorbents, the Tartar emetics answer better in catarrh & affections of the trachea & dryness of the Skin they are also good in billious fever, Vomits are more requisite in Children than in adults

from their being more in the habit of puking the Ch^n^ require more Medicine to vomit them than adults. they Should be given in a fluid state particularly in fever as the effects of them might in a solid form be procrastinated until the hot stage might come on they Should also be given in the morning no drink Should be taken for some time after taking an Emetic, To prevent Spasm in the Stomach the patient Should not lie on his side while Vomiting, for any benefit they Should be given twice a week, Formerly they were given to discharge Morbid ~~[illegible]~~ matter from the Stomach hence they considered one Sufficient They Should not be administered when there was congestion in the head & never after a disease is formed, Diaphoretics are those that act on the Skin Cold water acts in two ways one by reducing the action of the capillary vessels, there are Medicine that open the pores without causing Sickness & determines the fluids from the internal to the external as wine &c & The Miasmata is more apt

by the pores than any other way as the smell of those infected proves the sand bath is an excellent Diaphoretic the remedies for discharging from the fluids are proper in all complaints that the arteries are not affected lying in bed promotes perspiration we perspire more awake than asleep more in 9 hours asleep than 15 awake, the temper=ature of drinks should be attended to & adapted to the temperature of the body, depletion by the pores should be attended to as well as bloodletting &c, uncommon care should be taken not to allow a patient in a sweat to expose himself to the open air.

Diuretics cold feet & the digitalis &c & onion when applyed to the [illegible] diluting drinks in morbid action all of them are useful they are also indicated in Dropsy & when the Kidneys are affected

as Mercury the Salivation acts as a revultion or depletion, Salivation is the most unpoppular remedy we have, still nature performs many a cure with it as in Children they are after appearing in this world

attacked with Fever then pulse quick &c
are relieved by a natural Salivation & often
cures Dysentery, by a Spontaneous Salivation
Madness is frequently cured, The following
auxilliaries Bloodletting low diet &c It seldom
does harm unless the inflamatory diathesis
prevails its accelerated by Vomits Opium
cold bath &c Cold water &ca Sometimes answer
when Calomel dont cause Salivation other
preperations of Mercury will answer Dr
Chisn Says combined with ~~[illegible]~~ Jalap it
answered when Calomel itself refused to
perform & Turpeth Mineral & other pre-
-perations may be tryed, These Internal
Medicine Should be applied with friction
of the Ointment, To restrain Ptyalism
Bloodletting purging Blisters & oil with many
others are in use, its often effectual in those
that refuse other evacuations as in obstinate
Ulcers, Children under Six should not
use Mercury for the Jaws at this age are apt
to put on a putrid appearence, Its also

improper after the age of Sixty, When a flow of Saliva takes place we seldom see gangrene take place Errhines many diseases go off by the nose these should never be used when the blood vessels of the brain are in a state of distention Expectorants as flax seed Mucilages &c nauseating doses of Tartar emetic & Squills, Blisters act as an expectorant Menigogues the Dr dont know any medicine that act on the Uterus there are many in use But should never when any inflamation of the Uterus takes place Blisters act by drawing Serum from the blood in this the act as Sedatives some act slowly as flies & roots &c boiling water acts as a blister if confined but it spreads too much to be used, they are good in Morbid action & in local congestion of the different parts in the head bowels & Joints, there use in different diseases ineffectual in diseases where too much or too little action exists there is a certain point ~~below~~ & ~~above~~ this is called the blistering point ——

is not effectual in complaints that come on suddenly, It never for a long time rises on the head & should remain or. four & twenty hours in any other part twelve will answer, Blisters should never be applyed on the extremities whe there is any tendancy to Mortification but if applied on the extremities they will induce mortification, In dropsy they do most service when they discharge a quantity of serum no two actions exist at the same time, blisters should not be continued when the begin to discharge matter; Issues & Perpetual Blisters are found of service in Pulmonary consumption they are indicated in local inflamation, they should not be desisted from unless by using some other evacuation these act by equalizing the excitement stimul should be appd gradually cold water is necessary when there is absence of heat when they are left to nature the excitability is wasted by the excitement, stimulants by depletion as abstinance they convert the excitabillity into excitement, Sugar of lead acts as miasmata, there is somuch

to reduce Morbid excitement, Hand Labour has cured manie Delirium is beyond the effects of medicine Stimulants are most Service in muscular affections, When the use of them is commenced the State of the ~~pulse~~ disease Should be observed & the effects of former Stimulants. When the impart a slowness to the pulse its favourable, The Arterial System is the place where morbid action lies, large doses of Laudanum causes restlessness when small doses procures Sleep, By reducing the System below the medicine when its proper to destroy hemmorage. When the excitabillity is depressed then then give Stimulating Medicine gradually large quantities of Bark may be given as in Jail fever in Cronic cases large quantities of Wine Brandy &c will prevent immediate death the Dr related a case communicated to him from Virginia of a child that drank a quart of brandy in Colera inf" which rsked her from death without any of the usual bad effects of that Spirit Weak Stimulants often cause death

do not combine too many stimulants together by giving them seperate you will be enabled by having more resources to contend with death & when they all have lost their effect by use defer using them for a few days When the stomach looses its sensibility to the diff^t stimuli apply them on the skin &c Opium when looses its effects by the stomach acts by the rectum Bark the same way, frequently the bowels cannot be acted on by the strongest purges when a weak purg will I knew a lady that could not hear the noise of a cannon & could that of a musquet & could not hear a coach role but would hear a pin penetrated thro' paper, Warm water causes vomiting when hot would not Stimulants are best applyed in the morning the system is then most excitable Alkalies prepare the stomach for stimul^ts Morbid excitement exist in one part by acting in another if in the bowels use a purge if in the brain use salivation if in the bloodvessels bloodletting

If in malignant fever, if you wish to bring on ptyalism use bloodletting but we should be acquainted with the predisposition of the patient, Tetanus is cured by drunkness which saves the system the Skin is stimulated in order to excite the Stomach, The exercise of the Understanding helps the cure of diseases Study often cures headach conversation has an effect on diseases fear Joy, pleasing sensations the app^n of a friend or the naming him will often change the disease, The Morbid Stimulus of disease often contains life & removing them causes death, In prostration the strongest Stimulus requires to be used, The remedies proper to pre=vent a recurrence, The choice of aliment those that are durable in their impressions & those that are not, aliments comes under the former they accomodate im=pressions to the excitement & those that are agreeable, When the Stomach will perform its functions Solid food is

preferable to liquid Salt preferable to fresh
meat, The Stomach should be always
employed like a school boy if not em-
ployed will do harm, The Farmers say
that most fluid give most fat & most Solids
give most flesh, the more you nourish an
unholsome person the worse, there are cases
that makes it necessary for some persons to live
on particular aliment. A lawyer in this City
was cured of a complaint in his Stomach by
living on turnips, A diet by weight & measure
will cure complaints, Eggs & Milk will
answer this purpose milk being easily weighed
certain drinks are useful & Medicinal as
Wine &c, They are more Stimulating than aliment
the difference of heat in the hot warm cold &
cool bathes, the cold bath is more indirectly
Stimulating than cool, the cold bath should
not be used by full habits such as those
those have a determination of blood to their
head & more while debilitated after sweating
the excitability was exhausted in using cold
baths the head should always be wet it shd
be used in the morning & at twelve the system
in the morning is more susceptiable of being acted

Its best for weak affections, The Shower bath bath answers better for weak affections of the head & the shock greater, the manner by Buckets the Dr says is effectual, ablution will not do it not reacting as is the effects of the others air is used to produce reaction Hot bath disolves the blood & discharges sweat profusely. It should be used in warm room There is a mode of using them successively cold may be conveyed by air Dr Franklin used this & immediately tumbled into bed & fell asleep which he often declared was most refreshing of any sleep he ever took. The Stimulus of heat is added by the communication of Sand &c &c

Exercise should be introduced in all cases of debility it promotes the circulation of the blood Lymphatics secretion excretion &c exercise is passive or active riding is partial exercise, a cow that is well curried will give more milk than one that is not — frictions is good partial exercise causes partial circulatn. as sowing &c a carriage or sailing are useful Swinging also is useful these are advantageous being performed in the open air —

Sailors are healthy when kept clean as no evaporation takes place in the middle of the Sea unless near land. Balloons may yet be in use to cure diseases, Habitual debility is cured by change as from one business to another a change of climate a citizen of this city went to London & had his teeth at the time loose before he had been there much time when all fastened The air should be always changed when it gets beyond pleasing Mineral Waters to be effectual they ought to be from the Sources they are not good by being imported, the ingredients are many that compose them, they Stimulate most when drunk warm they seldom agree with the Stomach the first week the excretions & secretions are man relieved two thirds of a pint in the morning & one third at mid day they are not good in Plethoric habits But in nervous Stomach & bowels they are very good In all inflammatory diseases they are pernicious as in pulmonary cases & Rheumatism always advise debilitated patients to go

to bed early & at the same hour & get up at the same regular hour & not to lie on their back for more people die on their back than in any other posture The night air is bad & the venerial appatites should not be indulged the bed clothes should be warm, Tight ligatures worn while living are bad Flannel drawers are more useful to women than men, three pounds of down with one of blanketting will be warmer than three times the weight of other covering Aliments should be proportioned to the state of the system in the cure of disease Any benefit that can be expected from the change of climate will not take place for about two years the longer the change the better The deobstruents are Iron & Bark & Mercury is used But should not be allowed as a universal stimulus, getting drunk may be a cure in depression of spirits Snuff is also good in the same complaint & is least injurious of any form of tobacco. The Indyans on a march carry a piece of wood for some time & then throw it away in order to feel lighter, those patients ~~that~~ who go to see for health are better always in storms of

weather, all these Stimuli depend on the excitement that is caused in the System, debility is always at the treshold of disease, & disease craving con=tinually; Fainting is a degree of debility a few drops of water will recover people or a burnt feather the noise of a cannon will often bring people to life Tonic remedies may be applyed different ways externally, by the Skin Stomach bowels & anus when the stomach will not recover opium Bark. &. the rectum will the intestines have more irritability than the Stomach or any other internal part, Bark Camphor & opium frequently act like a charm in relieving pains of the Joints, Tobacco & Stramonium caused Vomiting by external application These act in three ways by Friction external determination & Sympathy they should not be used in morbid excitement the Astringents act by a specific sensibility of their Stimulus, The Medicine that removes diseases are Vomits purges Diuretics &c &c those that offend by their qualities, The morbid fluid of the Stomach may be destroyed by Magnesia or some other earth——

The calculus in the bladder is said to be dissolved by lime water or acids &c But I believe no such medicine to be as yet discovered—
Mercury is supposed to destroy the virus by uniting with it, demulcents by destroying the acrimony of the mucus
Medicine that remove obstructions they are Iron Mercury &c I have ordered local bleeding with advantage in obstructions in the capillary vessels as in cronic Rheumatism gout &c Stimulants are required. Medicines that are supposed to cure diseases by changing the quality of the fluids or the texture of the Solids these act by removing pain by distention & pressure pain sometimes cures diseases. There are instances of people dying under operations for refraining from calling owing to excessive excitement—
pain according as its local & constant
The remedies for relieving pain are depletion Bleeding purging Vomiting are the most effectual assisting abstinance those that die from famine feel no pain

Opium is one of the most effectual of those medicine when it looses its effects one way, try another the doses of these medicine are to be equal to the system, cold is also effectual it may be applyed in form of a cap made of tin which contains ice with water its good in hemorrhoydes, Hot or Warm water hot acts as an anodyne, clysters of warm water gives ease in colics excites the heart to action, oil applyed over the body cures colic The Ancients Romans were not much acquainted with this affection in conseq^ce of the great use of oil among them, Violent frictions pressure I knew a gentleman that had a pain over his temple & by constant pinching got rid of it But the part became concerous Rubefacients as Ginger & Cardamum mixed are good to releive pain cutting the nerve a cross this gave a quack in England great repute for curing the tooth ach, Women bear the pains of parturition best when they walk shallow owing to revultion or great excitem^t as when two children cry he that cryes loudest stops

the other, resting on the back will often ease pain exercise on foot or horseback will often ease pain electricity the seeing of friends pressing a role of Sulphur in the hand &c until breathing, Artificial pains are those that come on gradually, Means of Obtaining Longevity See Inquiries Its the business of Physicians to know how to accommodate Stimulus to the System what rules answer one person will destroy another —
& accord g diet dress &c. to the season —

Jan y 12 1808

Practice of Medicine

Dr Rush commences after the uncharitable & partial tryal of nosology He himself was prosecuter Judge & executioner poor nosology fell under his hand without one solatory friend Once down our best friends forsake us, He begins with telling us he will give us a secretion from all his labours hitherto & mentions numbers of objections to nosology. We see the same cause bring on different diseases in diff t persons & in different climates time has the same effect in changing the same disease with the seats of disease, We

dont give a different name to rain because it falls on the mountain a Lady was attacked with many diseases but never with more than one at a time. Who can tell in Sick Stomach & head ach which was the primary affection Cullen had Dropsy & Scurvy classed among his Hectic fever, Nosology excludes the diseases of children & all domestick animals by them not being able to give us the description of their complaints the Eye pulse &c may be known Nosology has done great harm in preventing us destroying the first ap-pearance of fever many thousands that might have been relieved by the timely use of a purge or some other remedy sunk under disease, there is no difference between Hydro=cephalus internus from a blow or any other cause, the giving one set of Medicine for one set of diseases is as absurd as that a Sailor should make a distant port with one set of sails without changing them The Unit of disease requires only a few select Medicines, you have seen the Unit of disease in our hospital where one remedy cures many diseases, Nosology exposes our

Science to uncertainty, It requires great
memory It may be compared to a large
cabinet full of rooms with a key to each
door when the unit of disease opens all
with one key, A Quaker preacher once
rode his horse in a quagmire which with
much difficulty he could extricate him
Some years after he happened to be going
the same way the place was perfectly
dry but the animal recolecting refused to pass
the master remarked that the horses
memory was good but his Judgement
bad, The intermission & exacerbations takes
place at different times, There are inflamns
of the brain that requires alert treatment
& others not, That Anatomy & Physiology
are against it diseases of the trachea
epiglottis & have three different sympts
Dr Brown divides diseases into two
kinds Steni & asthenic there may be weak
diseases but there must be morbid action
how seldom we find the nerves affected alone
Many define disease that the functions
are performed with difficulty pain in the
side is a symptom of Plurisy pain at the
right side & Shoulder are symptoms of Hepatitis

The Proximate cause of disease with the character of epidemics & State of diseases Nosology makes out a disease for every remote cause It causes a dispute ~~of coat~~ among Physicians about the name of the disease Cullens Sparon Browns Stenic Asthenic & Darwins Sensation motion association & Volition Disease of the blood vessels is fever, The Phenomina of fever they are preceded by debility, its debility from action or abstraction or direct debility all irritants or excessive wo=cuations cause this debility, there are two kinds of irregular action Muscular & sanguif. the one in the muscular fibres & the other in the blood, Morbid action constitutes fever but there is a grade of fever that transcends morbid excitment as in Hydrophobia =es transcending inflamation (See inquiries) Hydatyd are found every where an effusion in all parts are effused in the bowels perhaps causes death being a sudden debility from the exhausted state of the excitability The extremes of a disease meet in a point & the present dies of debility —

Of the States of Fever which are universal or affect the whole arterial System They are the Malignant, Gangrenous, Synocha Synochus, Synochula (Fortis), Synoch (Mites), Synochoid, Typhoid, Typhus, Hectic Intermitting, Febricula, Of the remedies for preventing the formation of Fever during the existance of its predisposing debility or premonotory Symptoms They are fasting rest Gentle Stimulants & Gentle evacuants, by Typhus &c. all Fevers affect the nerves more or less The Malignant — The misplaced State begins with the pri=morally State of fever the Symptoms that indicates a cure of these fevers, We should meet our patient in the field or by the fire side in the forming stage, Symptoms the Hair raising up & crisped Skin elevated excitement frequent full pulse colour like the rain bow, if cronic pains exist a diminution of them increase of appetite unusal Mirth & dislike to many things before agreable —

The Symptoms in Children besides some of those mentioned are increase of Sweat & an inclination to talk more than usual & Jumping in the Mothers Arms

The depressed Stage comes on with cold chilliness a Sinking of the hands & face a Small weak pulse, an inclination to go to bed which equalizes the action of the muscles the least motion aggravates the attack

The only way to conquer an approaching fever is to submit to it the remedies before mentioned are to be put in use with the bathing of the legs & a warm bed & small dose of laudanum & Bark & by distending the Stomach Dr Curry cured this stage of fever with cold water being poured on the body this suddenly elevates the blood vessels which are depressed; Gentle evacuants are most proper when the fever is forming besides emetics & Sweats Dr Brown speaks highly of this last if it did not prevent it it checked it moderate Bleeding prevented it But if too much it will bring it on —

Gentle sweating & moderately wetting the skin will prevent it, the Dr tells what good effects geting wet had on him in time of fever it prevented the fever from forming the rain affected his system as a Sedative all the primorary Symptoms or states collect themselves together while an elevated excitement depression & debility; The means of attacking fever in its forming state. fever that we cannot prevent & feir when formed we can cure, Thousands in this City suffd from not preventing fever a fever will run its course in spite of Medicine fevers have been cured by chance or design they are cured often by large Bleedings according to Moseley a colera morbus often cures fever profuse sweating fear & terror also extinguishes fever a strong dose of opium or large doses of Bark or by weaking the action of the bloodvessels in the system a quart of wine or pint of spirits will often cure fever in its primary stage Dr Curry by effusions of cold water they offer great violence to the system the convalescence tardy

those that require depletion we find all patients plethoric at the begining of fever the effect of bloodletting is immediate & is obvious from the rupture of the omipia & is known from the use of the spleen & by its advantage in fever it strangles the fever its use is seen in inducing purges to act when they cannot act. It causes reaction It removes cronic diseases it prepares the way for the use of Bark. In pulmonary affections of children it does vast service when they are not able to throw up the mucus from the trachea &. you are to bleed more in the menstruating state than any other then there is more excitement. after the first or second bleeding no fainting takes place He compares a Physician to a navigator who directs his corse by the quadrant But when he gets no sun for several days steers directs his vessel from his other information so will a physician when the pulse fails him be directed by other symptoms, regard should be had to the time of the year, In autumn its more necessary than in spring it

regard should be had to the size age &
the country the person comes from the
People of G^t Brittain bear bleeding worse
than the people of this country also
attention should be paid to the part
affected, For the general appearance of
the blood in inflamation see the D^r inquiry
Bloodletting should be copious when con=
-gestion takes place in any part as the
Brain thorax abdomen & Bleeding in
morbid excitement will be attended with
less inconvenience than at other times It
should be according to the system Bleeding
ad deliquium should only be prescribed
in the beginning of fevers of violence — Four
Ounces of Blood drawn in the commencement
of a disease will do more ~~[illegible]~~ service than
sixteen it should be taken gradually
Local Bleeding should not be used unless
where there was local congestion, It should
not be used in habitual drunkards for
they may be compared to a soap Bubble, It
should not be used in chicopse & convulsions
sizy Blood & tense pulse dont always warrant
bleeding —

Vomits act by discharging bile from the stomach & promotes perspiration & stimulates the absorbent system They do most service when the are head achs & encourage perspiration, They are given to Childn with safety & advantage, They are proper in the fevers of one season & not of another of most service in the forming state of fevers & when frequently repeated only Purges should be lenient drastic & according to the system or necessity The happiest effects have been experienced from the infusions of cold water It acts in two ways by lessening the blood vessels & lessening the action & by the abstraction of heat a thermometer should be as constant a companion of a Physician as a lancet, Cold Water often does harm as next to Purges, Sweating med.s & med.s which excite salivation & Glysters washing the eyes in cold water & in congestion of the bowels head &c the cephalic cap is an exception, remedies founded on theory remain in use after the theory is exploded the English Phy.s are fond of emetics The French Phy.s of Purges & Glysters Cold water excludes all other remedies, Fire remarks against cold water — he thinks washing the face & hands in cold water answers every purpose of general bathing that when one part is effected with the cold water all will be considers the skin a unit

Its applied to Children with less inconvenience
than adults it should never be used as a
stimulant it causes reaction, The Stimulus
of aliment should be always abstracted
even Milk should be prohibited Butter Beer
Spirit Wine &c &c should not be allowed
the invigorating passions by moderate fear & afflictions by
Tea Coffy Corned Gruel Tabiocca washed
rest
apples Indyan arrow root are those that
should be used I recommend you Dr Johnsons
Nurses guide which will direct you
The Stimulus of Sound & Light should be
removed many people in the sick room
should not be permitted, acrimoney should
be washed out of the body Water balm tea &c
will answer this purpose Currant Jelly or Jelly
water made of raw or dry a drink should
not be made of roast apples it should be
covered Barley water or Tamarind water are
very good none of these should be given cold
but moderately warm, these excite perspi=
=ration, oranges lessen thirst & do no harm
Nitre & Neuteral Salts lessen the action
they are never good in Gouty or bilious fevers
~~habits~~, Soluble Tartar & ~~Salt~~ Cream of Tartar are
good in these complaints small doses of
Tartar emetic are given with advantage
they lessen the pulse when the cause nausea
particularly & determin to the Skin—

Sugar of lead attacks the stomach & bowels & lessens the action of the heart or fibres the Digitalis or fox glove acts like the sugar of lead this has done mischief in Languor external application of oil in morbid action lessen it, It is injurious in fevers of little action from its sedative action it must serve in high action Nitre dissolved in Vinegar & applied over the body lessens action, people after a sleep often are in a high fever, are there no other mode of Cure by friction Capt Cook was cured at Otaheight by the indians of Rheumatism, The Indians cure themselves of consumption by extending themselves by the the arms The Rusians use a bath like the Indians first hot & then cold, The Indyan remedies should not be used they bring on old age. The Typhoid this occurs in the scarlet & all other fevers so that there is no fever that dont put on this form Pulse round soft & Jerking skin dry edges of the tongue dry Typhus mitior of Cullen It appeared first when I began practice in this city an emetic in the premonotary symptoms will choake it Bark & wine & opium does harm there are two actions in this, Stimulants does harm in one the

abstracting Stimuli & doing nothing are the the cure, When fullness ~~doing no~~ is obvious taking away some blood is proper then Vomits these are safer than bleeding to be effectual they should be used every other day, Gentle purges Nitre &c. these remedies should be continued until the fever begins to disappear The fever is to be cured by destroying a weak action & begining with small doses of stimuli until we produce a natural in place of a morbid action in the blood vessels, those that require a stimuli are the Gangrene state of fever Typhus Gravior by Cullen is known by a feeble scarsely perceptitable pulse by bubous carbuncles a frowning countenance it appears in the blood vessels in the last cronic stage the dry black tongue coma delirium muttis sometimes this puts on the appr^e of Mania costiveness ulcer^n of the lips dry skin deafness I refer you for a more exact account in Dr Haxams this follows the inflamatory state of all fevers But is sometimes original. Fevers of weak action dissolve the blood, the remedies are Stimulants external & internal

The Internal are Aliment & nutriment
these were formerly mentioned, The external
are Cataplasms fomentations Glysters warm
baths & Hot baths Causties frictions, The
internals should be given gradually & commencing
with the weakest, at the close of fever give
large doses in succession & Volatile andantly
The fermenting & distiled liquors Wine Spt
White Wine contains more nourishment &
Red wine less, ~~than any other~~ malt liquors White wine in case of acid
in the stomach is the better, of the Malt
liquors Porter is the best, distiled Spirit
if the patient is accustomed to it should
be given Wine Volatile alkali has the best
effect in this disease few grains may be given
every two hours Oil of Amber may be given
with advantage particularly if spasms should
take place I have tryed musk often but
never found it be of service, Opium as a
stimulant is valuable in small doses it
produces sleep in large inflamation of the
stomach, it differs in effects from other
stimulants, they all act on their respective
parts as oil of Amber on the fibres, Opium

Acts as a universal dominion over all the System. Common Stimuli may be compared to a torch & opium to the Sun, ten drops will often cause Sleep when two hundred will not by getting beyond the sleeping point ten will cause Sleep & twenty will causing restlessness, The dose should be in=creased according to the debility to be effectual it should be given the whole day & large doses at night, The patients should be disturbed during the night to give them drinks or Medicine for Sleep is an abstraction of Stimuli, people die more at night than any other time, A man after taking a vomit will cause death by twenty drops of laudanum

Ether may be given when opium looses its effects Bark in infusion with laudanum is excellent its thus ℞ Cinchonæ pulv ʒß infunde in Aq. Bulient ℥vi Tinct Cinnam. Huxam ʒß Tinct opii gtts xx M. ft Mixtura Sumat Coch ij tertiis horis. The following he also recommends ℞ Coff. pulv. Cinchonæ aa ʒiß Aq. Bulient ℥viij M. Sumat ut sup.

In ~~great~~ weak excitement & great excitability Bark was of service. if Bark dont sit on the Stomach add some cordials

Mercury its use in fevers well known, in other parts it has been given in fevers not for the purpose it now is given in it was the intention of european Physicians to procure a Salivⁿ I never heard of a mortifyed Jaw from mercury unless one which was aggravated by other circumstances, The Use of pure Air in fevers too much cannot be said, In Tortola the brake the fever by Mercury, Where pure Air cannot be large fires will help to purify the Air & destroying the deleterious part of the Air, The Surface of the earth attracts all bad Air, The efficacy of Smoke did not escape Mr Brooke & Dr Clarke menti that the cookes of vessels never take the fever The purifying the air this is done by the deflagⁿ of Nitre the curtains of the Sick bed should be constantly removed, no more persons should be allowed in the room than is necessary for attendance & no Visitors The stools should be constantly removed out of the room The Linnen should often be changd but two should be allowed in one room

the understanding should be invigorated & also the passions by conversation a paroxism of rage cured a gentleman of this fever, terror cured this fever & a Hurrican cured all those at Barbadoes that were affected with this fever good news of a prize or any thing in that way has been known to cure this fever, Love has recalled the departure of life a lady that was partial to a gentlem^n sent for him sixteen hours before she supposed her departure from this life he remained with her some hours & had such an effect on her that she recovered; Hope that accilirating passion has frequently recovered people from this fever, the death of friends should never be made known to patients; The Stimulus of aliment, Animal food may be taken in broths or solid food with saffly & advantage, the D^r cured a Boy of small pox with typhus by giving him Beef stake It acts by giving a pleasure & as a mild Stimulus & producing means for blood, Two things are to be attended to, If there was no appetite the food even then should be animal

some Cordeals

external Stimulants those that Stimulate the nose bowels limbs &c. Spirit should be applied to the nose injections of St. & water & also of cold water used as a bath from extreme weakness hot baths are bad Blisters are without effect they mostly pro=duce Gangrene they may be applied in topical pains removed from the heart. Costies scarifications have wonderful good effects in the typhus state of activitie fever they have been of use in the plague in Egypt & europe I judged their being good from their effects of abcesses in torpid fevers Bloodletting is some=times indicated Boiling water when we want to produce an immediate effect Sound watchfulness by Laudanum cating by night Obstructions of the abdomen are removed by bloodletting.

Intermittant fever

This is divided into Quotidiene Tertian & Quartan with their various combinations a Dr S. saw a quintan, When remissions happen at irregular periods the fever is called remittant When intermission

takes place & the Paroxysms return at certain regular periods its called an intermittant & when no evident remission can be percieved the disease is named the continued fever, from the end of one paroxysm to the begining of another is called an intermission & from the begining of one paroxysm to the begining of another next succeeding is called an interval the most usual interval is that of forty eight hours which is named the tertian period the next is seventy two hours & is the Quartan the most usual ~~is that of forty eight hours~~ & is the Quotidian & is a period of twenty four hours, all the rest of the intervals longer than the Quartan are rare & are only irregularities This fever has three stages the cold Hot & sweating for which Dr Cullen

Old debilitated people are more subject to quartans according as they are combined with less or more stimuli, There was a time when this fever was incurable & so still in Holland from their prejudice against Bark the French also have a prejudice against it, This fever is affected by the air, The Mercurial fever puts on the appearance of & so does Gout

Cure this is divided into two indications 1st In the time of intermissions to prevent the recurrence of paroxysms 2d In the time of paroxysm to obtain a perfect removal of the disease Quotidians attack in the morning tertians mid day & Quartans in the after noon, An intermittant may be known by the following marks 1st By their occuring in Autumn 2dly by the duration of the cold fit 3d by a frequent discharge of bile 4thly attacking mostly in the morning death sometimes occurs in the paroxysms of an intermittant this mostly happens when there is not a cold fit. The Cold

fit is the first sign of action in the System
& they may be also known by the Urine being
clear during the fit & a sediment in the interl
intermittants by bleeding are changed into
a continued by which means they will be
cured the Dr gives instances of it, towards
the close purges, Bleeding in the Vernal
intermittants is of use, In a paroxysm
of a mild grade Laudanum may be used
Laudm is of more service before the second
fit, But if the third takes place Bark
the Hot or Cold bath & a ride on Horseback
dancing Sweating terror & a change of air
cures this disease, all these put off a fit
only as Bitters astringents &c &, Chamom
Gentian centaury &c are the bitters
Bark galls allum &c & aromatics are
Pepper Vinegar Spirits &c, There is
another Medicine found frequently of
service the Spiders Web or the juice of a
Spider the webb may be rolled up in a pill of
bread or the spider being put in a piece

of bread & laid before the fire, its juices are incorporated with the bread & thrown away the bread then is given in form of pills before the fit, the Sacchar. Saturni & Glue & appn of the tourniquet will be of use, this last raises the pulse the blood drawn below the tourniqt is black, Bark stands unrivaled, Emetics are also useful, they help the stomach to act on its contents Purges are necessary Bark should be given before the fit comes on It will be unsafe to give it in Tincture for many rea=sons, Bark will loose its virtue by constant use & should be declined for some time It never never fails of success unless given at improper times as in the inflam=matory state of visceral obstructions &c the Decoction often cures when the powder will not I have given it with wine with advantage, If it produces costiveness combine Rhubarb with it if it purges Laudanum may be given with it & if dis=agreeable to the stomach aromatics are given

Bark has retained its character 200 Years
The Disguised Symptoms are Sore eyes pain
in the back & head he seen it in periodical
convulsions & Mania Bloodletting Answered
a good purpose in this case, when Mania
loses its character it should be brought back.
Vomiting of bile in a periodical fever
alternates with it eruptions of the Skin
inability to see periodical dropsy & a
periodical fever of a part of the body
Bark is the only remedy in these cases
If obstruction of the liver or spleen friction
exercise ptyalism &c should be used pulm'y
affections are often the effect of this fever
Swelled legs also these should be rolled
upwards Jaundice & Hectic fever a
Ptyalism promises more in this than any
other remedy Dr Clarke says this fever is
contagious, The Febricula is known by
a frequent Quick pulse, its called in the
Southern States, Vomits gentle
purges & Bark are the remedies, its soon excited
into an intermittant which must be
treated accordingly —

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The Hectic Fever has peculiar Symptoms it occurs mostly in Pulmonary consumption & suppuration of the Joints & in scrophulous absc^s in glands obstruction of the liver & sharp pointed instruments penetrating the muscles also in Leucorrhea & amenorrhea & also from different exhalations from home sickness, this has a remittant form with two daily exacerbations the first mostly about noon & the ~~other~~ slight remission about five P.M. This is followed by the second exacerbation gradually increasing until after midnight the remission commences about two in the morning. The Urine is high coloured & deposits a brany sediment the appetite not much impaired the thirst inconsiderable tongue clean & of a red colour till the end of the disease when it & the fauces are more or less covered with apthae as the disease advances the a[illegible] becomes pearly white face pale with a circumscribed redness in the cheeks first the patient is costive but a dyarrhoea comes on, It diff^s from intermittent fever in Hectic sweats dont relieve the chills

The Urine in Hectic during the fit is muddy the intermittant attacks suddenly the Hectic never, the Blush of Hectic & not in intermittant Bark never cured Hectic pulse also differs in Hectic mostly Synocha & Typhoid but never Typhus, Cure All irritants should be removed Bloodletting should be used wh.n the pulse is Synocha or Synochoid, & then in small quantities Milk would it not be better to give turnips or other vegetables the infusion of Malt, arsenic this promises more when there is obstructions without inflamation I have given Bark without Success Digitalis, Riding when it can be accomodated to the system a Salivation & hard labour, the same form of fever frequently passes into another, there may be a Synocha on one side & a Synochus on the other side at the same time according to Dr Mitchell of New York. ——

All fevers have their remissions & inter=missions they are said to terminate in critical days, these are the 3. 5. 7. 9. 11 14. 17. 20 the tertian being the original type let a fever be what it will, there

will be a worse exacerbation every third day as on the 3^d 7. 9 & 11 But as debility increases the type changes to the quartan about the 11th day. When a fever terminates in health it is on one of these days, all these fevers appear with coma Mania appoplexy Cholera pain in the back hips & eyes & sometimes with a puking of bile Dr Jackson mentions out of 212 that were ill of fever more than one half terminated on critical days & not more than one ended otherwise Dr Hoffman also mentions of a number ill with fever which terminat^d on critical days & Dr Wm Brown says out a number in the Edinburgh Hospital ill with fever that they all terminated on critical days there is a certain state of the pulse that tells when a fever is about terminating without any remarkable discharges from the body there is a want of sensation of urine & appetite, on the critical days its necessary to evacuate the bowels, If a paroxism should be set before

the critical day all the power of Medicine should be put in force when there is doubt then the bark should be given on the critical days, In September & october the fevers are more cronic the change of Moon Dr Belfore & Mosley say that patients with fever were worse in full Moon its, then necessary to guard against fever at these days The Prognosis of fevers differs considerable, Deafness is favourable in chronic fevers but alarming in acute The same Symptoms differs in in Children Some have black Vomit & others Symptoms different from this Children have more tenacity of life than Adults & have not the horrid Idea of dieing we have, middle age is more favourable than old age the same signs differ in Robust & those who are old, The Violence & duration will be Judged according to the exciting proximate & remote causes & according to the suddeness with which the fit comes on, You are to inquire the causes & suddeness with whh a fit comes on

There is always danger where the different Systems act not in Unison, as in Hectic the blood vessels are left alone when the connections between the system is general the more the combat is thrust them all the better unless beyond the point of reaction, Its a bad sign to say they are too well Chills in the chronic state par=ticularly in the end are favourable, the fever then intermitts; Signs of death — debility in the beginning is seldom unfavourable tho a disposition to faint if placed on the feet is unfavourable long continued pain is un=favourable it wastes excitability, cold feet & cold wrists is unfble — particuly the latter for I never knew a person to recover that had his wrists cold & hands warm, long prold chills hot Skin & a burning at the Stomach & bowels thirst for uncommon drinks are all unfavourable a wish for water is favour=able a pulse at 120 not favourable a white tongue indicates an inflammatory fever a black a malignant a natural tongue the most dangerous of all

a natural pulse & ~~tongue~~ skin in Malig=
=nant fever always dang^s. a matter
like the white of an egg is favourable
& tongue at the edges moist favourable
We should not be decieved by a dark
tongue as its often caused by the eating
of tobacco Wine Jellys &c, & also the
moist tongue by drinking soon before
we see it & dry by the mouth being
open, Sores or aptha on the lips &
~~[illegible]~~ is favourable but if on the
throat & fauces alarming, a dull eye
& squinting is not favourable also a film
on the eye Double sight &c are unfav-ble
deafness in Mild fevers is good but in
Malignant fever a bad Symptom
pain from light & a great sensibility to
noise & a recovery of hearing, are all unfavourable & pain when
applied to a Blisterd surface is favourable
in Mild but not Malig^t fevers, Sneezing
& a patient looking round when the door is
opened gaping are all favourable

a blister on the nose & mouth & a Hyppo-
=cratic face are unf^ble^. a calm commencement
is not favourable Obstinate costiveness in
Malignant fever is bad Voluntary Stools
& wind with noise & gen. Stools are all
favourable, Worms discharged with the
Stools & alive are favourable But when
discharged without Stools & dead & by
Vomiting are not favourable, Stools are
fav^ble^ when natural, Vomiting at the
close of fever is bad, Urine of a milky
colour indicates a tedious fever & a pale
Coloured Urine is sometimes not favourable
Sweats when Saline & acrid are favourable
But when putrid the reverse Cold Sweats
are not favourable Hemorages favourable
in the commencement but not after, Pyalism
is favourable —

The Mild Bilious fever its causes
are the same as those of yellow fever, the
Pulse the same as Synochus Mitis —
The remedies are Occasionally bleeding
purging from the first to the last Stage

those I used were Salts Senna Castor oil & sometimes Calomel or Calomel & Jalap the break bone fever in this fever Vomits were given with advantage cold water applied to the body was of service Blisters applied on the fourth day acts like a charm Bark was useful, a Salivation is seldom necessary —

Yellow Fever I refer you to the third & fourth Volume of my inquiries you are not to expect but one form of this fever, fevers are not like a piece of wood that can be formed to any shape some remarks, the third day the patient finds himself better & appetite restored owing to the system being prostrated below the point of reaction, When oppression takes place Bleeding is necessary but when prostration death is mostly the consequence this fevers in diff^t forms as Pleurisy Dysentery Catarrh with blue bone cortus & also in form of intermittant with a tertian type & cause inflamatory I saw a person that had black Vomit on the twentyeth day it also puts on the form of Febricula & dumb fever

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Some walk out & do businefs & die on the sixth day, Universal yellow is seldom daingerous with profuse Sweats,

Remedies to stop Vomiting, Bleeding Chamamile coconuts sweet oil Milk opening & anodyne Glysters warm & cold water warm produces Irretation & cold reaction Spt of turpentine 30 drops in molasses should not be given too early Marleen gave the following R/ Zinci Vitri ℥ij

a Blister applied to the region of the Stomach & putting the hands in cold water & also applying it to the Stomach, If its black Vomit give Milk & lime water & Capsicum If Dyarrhoea takes place Laudanum must be given Glysters of warm water &c &

If Suppression of Urine it should be relieved by the catheter Blisters diverted Morbid excitement from the head & bowels

The Plague I refer you to those that have written on this subject, It differs from the American yellow fever by its affecting the Lymphatics & they

& were general appearance of Carbuncles
It has affected in England as a sweating
fever, What has put an end of to its ravages
are the observation to cleanliness the highly
cultivated state of the country & it visited
the use of Vegetables High Houses,
It still kept up in Egypt by the flowing
of the nile Uncleanliness predestination
In climates hot & cold bleeding is borne
better than in those that are uniformly
hot or cold its seldom safe or proper
when the system is prostrated, the gradual
loss of blood by scarification has been of
use; Purges & Vomits are of service, in
high action friction dont answer with
mercurial ointment

The Hospital & Jail Fever

when it puts on inflamatory symptoms
(mostly in officers) Bleeding is necessary
there is inguinal swellings seen in this
Hospital fever it takes place mostly in
cold weather See Monros History of this
fever The Fever from opium is of
a Malignant form the remedies

are copious bleeding emetics & that caused by the Syringe is the best by trusting it down the throat distending the Stomach often causes vomiting when the syringe will not Cordials often produce vomiting Flagitation did opium act more slowly I have no doubt but black Vomit would be relieved by it

A Disease from Mercury this is a tertian & quartan Synocha & Malignant fever Dyarrhoea & a peculiar eruption —

Hydrophobia seems of the grade it attacks the blood vessels & mostly in the trachea this is proved by observing a mad dog approaching without bark=ing Dr Physick that first discovered this it was the glottis was affected & performed bronchotomy Cure Depleting remedies by Salivation few patient die after the sixth day. throwing the patient in cold water Emetics are of service, excision at the wounded part is the best remedy it may be best immedy after it occurs but may several days after, ablution with water is useful

those wounds that dont produce infl^n
may be suspected of some internal affecti-
Mercury destroys the mercurial Virus &
why not get a something to destroy the
Virus of Hydrophobia Sweats answer
in great morbid action but in the fever
of debility the former takes place in
yellow fever. This is so much in Plague
that its called the Sweating fever
The fainting state occurs in all those that are
malignant. The Burning state is a
Symptom of malignant fever its in general
partial the blood trickling down the
arm causes a burning sensation
The cold & Chilly form for two or
three days continues its protracted
for a day Bloodletting the best remedies
frictions & warm applications
The Spitting state the pulse is inc^d
in activity & skin full of eruptions
The Intestinal Fevers are the
Dyarrhoea Dysentery cholera Morbus

& Colic, Dyarrhoea may be caused by
many Substances by predisposition & acrid
Substances attended with a copious discharge
of liquid Stools by unripe or decayed fruit
or putrid food Remedies Laudanum at
bed time, Dysentery Is caused by Human
Miasma as well as marsh, It comes on in
form of Dyarrhoea a total excretion & secretion
of bile takes place a discharge of blood &
mucus & foecal matter & sometimes mucus
alone this last comes from the larger intes-
-tines, Balls like Suit pass, Tenesmus &
prolapsus ani takes place, There is in the
lower bowels always pain & in the upper
Sickness, Sometimes the whole intestinal
canal is affected & sometimes excoriation
pain in the rectum often causes death
Tenesmus causes unpleasant sensations,
It comes in form of Dyarrhoea & goes in the
same form It goes in form of Tubercles
& Gangrene rarely occurs, It is sometimes
mistaken for other appearances But gangrene
will break when pressed with the fingers
which the other appearances will not

It puts on the appearance of the reigning epidemic & is more general on high than low situations & more in country than town It alternates with Yellow fever, It often assumes the same symptoms with the yellow fever, it suddenly ends sometimes in Opthalmia, It attacks children more than adults, & In the West Indies attacks black more than white people, among the premonatory symptoms is costiveness Dyarrhoea & Shattered Stools, the remedy should be according to the reigning epidemic Dr Willis says in a Dysentery at London that neither bleeding purging & nor Vomiting did answer, But Cordials only, In infla=matory Dysentery bloodletting &c, If it occurs during Yellow fever the same course of Medicine purges are highly useful in this disease Castor oil Senna &c they all seem to act as sedatives, Burnt Butter has been found serviceable, the strong purges are Salts Cream Tartar & Sulphur & occa=sionally Calomel & Jalap if necessary to assist them Blisters should be applied Vomits are generally forbiden but in

case of nausea they should be given, the fol-
lowing mixture R/ Creta pta Sol. Tartar aa
℥ij Gum Arabic ℥iij Aq. Fontana ℥viij
M Mutton Suet with other mixtures
were found of use at the siege of Derry,
The ~~Skin~~ & bowels act on one other like antag
muscles Opium should be given after the
reduction of Morbid action & should be
given in small doses in the day & large doses
at night, When this disease becomes peri
-odical Bark should be given, In cases of
great weakness the patient should never
get out of bed I knew cases where death
took place from patients walking to the
close stool, equal quantities of Sweet oil
& Laudanum applied to the anus has
been found of great service, in the chronic
State a Salivation ~~wearing~~ a belt round
the abdomen was of advantage riding &c
were useful, Fetid Stools are favourable
Voiding worms alive was favourable
but dead not so a sunk countenance
unfavble He agrees with the two parties that
say its contags & not its contags from Human
excretions but not from marsh (nature does harm)

Dysentery is attended crampes of the Stomach & bowels I respectable citizen of Philadelphia that I bled several times in Dysentery; Opium is bad in this disease until blood=letting precedes it, The Billious Colic is known by being ushered in a chilly fit which distinguishes it from the Nervous Colic & a discharge of Bile upwards & downwards But there are some exceptions to this by the pulse there is more or less action in it its brought on by the same cause & season that brings on other states of this intestinal fever The remedies are Bloodletting purging Vomiting Blistering Warm baths &c, Dysentery accords with billious fever Dyarrhea accords with Mild billious fever, those that are infected with miasma slightly may without an exciting escape these diseases, The following Authors may be consulted with advantage Sydenham Huxham Pringle Jackson & Mosley Lynton & Hector Macleom, The pulmonary States of fever are Pneumonia Vera Pneumonia Notha Pneumonia Billiousa, Catarrh, & pulmonary Consumption —

Pneumonia Vera is known by a tense but
oppressed pulse acute pain the side & back
dry cough lungs are diseased below the point
of reaction the cure of an infn of the pleura &
lungs is the same therefore it answers no
purpose to know which is affected, The infn
of the pleura alone is easily cured by bleeding
diluting drinks &c, Pneumonia is brought
by the causes of those fevers already mentd
particularly sudden transitions from heat
to cold they are direct & indirect causes
external violence is of the latter kind
The Lungs have no appearance of inflamn
from suffocated excitement having trans=
=cended inflammation, The remedies
Bloodletting should be continued until all
pain is removed no certain limits should
be made to this, I bled in the latter as well
commencement of this disease in this case
if I dont cure I am sure to change a chronic
into an acute disease, I bled a British
officer that was wounded in the Revolutiy
war several times in three days & took

130 Oz of Blood from him, Bleeding should be more from Wounds & Bruises ^[where the disease is caused] than any other affections, you should always bleed on the affected side, from the bloodvessels being more excited on that side, the first Bleeding should be large a Blister should be applied to the side affected, if not permitted cupping, Pregnant Women require to be bled more than any other Lenient Purges such as Manna & salts Castor oil &c a purging should be avoided I think a Blister in the early state of infl^n is injurious Blisters on the Breast if the Medi-astinum is affected But Blister on the back between the Shoulders is most effectual in infl^n of the lungs, this opperates the same way that Blisters applied to the extremities relieve ~~affections~~ affections of the bowels by easing pain & equalizing the system Diluting drinks with Seneka should be used Dovers powder is also useful when the cough comes on the demulcent mixtures should be given, Laudanum if the constitution will admit, Volatile alkali is of great service as an expectorant

An Emetic may be given with advantage; & cupping between the Shoulders, expectorants are never necessary when Bloodletting is used in time, Tincture of Cantharides is found of great use, A pain in the side dont entirely constitute this disease, it is an affection of the whole arterial System, Certain contagious diseases dispose to this from inducing a determination to the Lungs as measles influenza small pox &c A delirium on the fourth day is favourable pain in the left side indicates more danger than in the right, This is a true inflamatory fever these fevers are only dangerous from their determinations to particular parts Local determination to the head is the most dangerous because there is no vent to discharge diffused matter. The Stomach next but it excites vomiting without much effusion, Violent inflamation & Gangrene the Lungs from them its carried off by expectoration but this goes on slowly that the lungs are essentially injured & the patient goes off in a galloping consumption

The next is a determination to the liver & also to the limbs more danger is to be apprehended in pregnant women than any other, It terminates in the manner of other inflamations— after half cured it causes abcess in the lungs the Symptoms are chilly fits &c, This breaks in the course of a few months & discharged into the trachea Vomits are given to break these abcesses exercise often breaks them, It frequently terminates in Hydro Thorax;

Pneumonia Notha) Here the disease is mixed it depends on effusion of Serum & red blood into the lungs frequently inflamation accompanies it, It occurs generally at night it is known by a pain in the side & an inability to move the body from the position from which it was first seized, I have seen a person sit twenty six hours in the position in which the disease came on pulse full seldom tense but natural at other times hard & full & low

This is a violent & daingerous disease its mostly incurable in weakly constitutions & in drunkards & west india negroes, & old people It occurs in spring & autumn It sometimes ends in pulmonary consumption, The remedies are prompt & copious bleeding if this is not used immed y it end fatally, The pulse being soft should not prevent our bleeding, this proceeds from the effusion of perhaps a quart of blood into the lungs abstracting the blood from the other part of the body answers I have twice had this disease in both it came on at night I was instantly relieved by the loss of 20 ounces of blood in an hour or two after the attack I was so unable to change my position that I could not bleed myself & I made two or three attempts but was obliged to send for a bleeder, I never lost a patient in this disease, when I was called a few hours after the attack, I was called in consultation to a soldier seized violently with this disease in taking cold in a convellescence from a fever his pulse

was perfectly soft & pleasant I prescribed
bleeding to the amazement of the attend.g Phys.n
I next day met the man in the street, which
had he not been bled would not be the case
Vomiting is useful by producing excitement
in the Stomach & is abstracted from the
Lungs, Blisters to the Shoulders, wrists &
Laudanum, Volatile Alkali & cordials
The Vapour of hot water I think I have
saved the lives of many by this means
in the lowest state of the disorder, One
man I found sitting in the posture he had
been seized in his head depending over his ~~head~~
breast & gasping with great difficulty for breath
I heated a Shovel & pouring some water
on it I held it under his nose the water
was converted into Vapour & his head was
developed with it this was continued for
a quarter of an hour & greatly relieved
the patient he called himself a million
times better he was able to lie down &
having revived a little more I took from
him a few ounces of blood & he recovered

Pneumonia Villiousa comes on with symptoms of Pneumonia vera & seldom admits of more than one bleeding which is to be regulated by the pulse afterwards Bark first in infusion & then in substance in the first attack the pulse was tense But is so sudden in its course that the pulse dont indicate bleeding it appears in colic late in the Autumn its fatal in epidemic diseases See Webster on this form, two forms of cure in this disease 1st by Bloodletting when the lungs & alimentary canal are affected 2d purges combined with Calomel to carry off bile, Vomits when nausea, or typhoid languid pulse, a disposition to faint an abstraction of five ounces of blood Stimul.ts should not be given Gentle purges, the blood is sometimes sizy & requires stimulants

Catarrh See Cullens Nosology, This & the inflamatory state are nearly similar, The Bronchia is mostly attacked, it exists in the arterial system, Its caused by the Sensibility of the air, from changes of the air, its more common in warm climates from the difference in the night air from the day the night being much colder or a stream of air applied to the

body, cold applied to the body after sweat
Cold air when the body is previously debilit^d
Summer Cold always worse than winter colds
Sailors are most subject when they approa-
-ch land I knew a Captn of Vessel that
knew when he was near land by geting
cold The removing an old ulcer, Fear
or distress brings this on & also Vexation of
mind, Cold when uniform will not produce
this complaint, The Influenza is an affection
of a morbid state of the System, This affects
the Syneodian Membrane is affected :
It is attended with the Symptoms of the
foregoing diseases Remedies, Such as
prevent the forming state & those that
cure when formed The former are gentle
exercise & the others are Bleeding sometimes when
the pulse is soft & full purges Vomiting
Blisters & low diet, To old people cordials
are necessary, Catarrhs are never ~~to expect~~
to be neglected.........................

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Pulmonary Consumption for a
discription of this See My Medical inquiries
It appears most frequently with inflama-
tory Symptoms, it is always preceeded by
debility, the lungs are a tender Viscus.
The causes are affections of the lungs catarrhs
influenza & mal conformation of the chest
translated Virus, this is a protracted Rheumt
It ends in abcess tubercles Hydatydes &c
many ends in a Serus effusion & is called a
Galloping consumption, It attacks those
between 20 & 60, black eyed & red hair mostly
its also Heredy always on the Fathers side
& not on the Mother, The greater mortality
of this exists on the Sea Shore caused
from their inflammatory tendancy, Moisture
dont produce this, cold nor very hot weather
dont produce it, The forms are different
I saw two cases where there was no cough
but when opened had abcess in the lungs
It may be from ~~this that both~~ the effluvia
of the Spirits of those that are affected that
this disease is considered contagious

are seen whole Familys affected with this disease; the appearance on Dissections are to be seen in books on Morbid Anatomy tubercles form suddenly one or more abcess superficial, ulcers are harder of being cured than any other water in the thorax & concretions, Bone also forms certain substances are formed in the lungs as flour &c one lobe only is affd most of these would not kill the patient if the were not attended with Hectic fever, there are some of these symptoms carried about the system for many years, remedies are two kinds 1st when forming 2d after forming these forming are weakfulness & burning of the hands a flushing of the face & pale a week but tense pulse, Bleeding must be practiced if the pulse be tense Bark & Steel should be given exercise cold bath & avoiding the exciting causes, this comes on with fulness of the breast pain in the side & when formed with Syrup Symoshoid

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& Water, Pulse & the blood sizy, all the remed
mentioned formerly in fever are necessary
all the remedies should be according to the
system in the Synocha & Synochula Bleedg
& Vegetable diet should be used a little
salted meat or fish is occasionally necessy
Milk should not be used in this in-
flamatory state, the more solid food
the less blood is formed, Nitre should be
given in drinks. Blisters to the wrists &
back prove very useful particularly
perpetual Blisters & will answer as
well as Issues, one the size of half a crown
on the arm has been recommended
emetics & a Ptyalism in two ways by
saliva & spitting of blood this may be
from an effusion of the spleen, this has
been cured by an attack of madness
in the Hectic state the treatment must
be accordg to the system, Opium &
cordials are never proper unless in the
Typhus state of fever. The should only
be continued when they raise the Pulse

in this case they are better than Bark
exercise that invaluable remedy must
be according to the state of the system
Digitalis, this may reduce the system
but its effects are uncertain & Consump
tives could find much advantage from
the use of it a diet of Sweet grapes
large draughts of infusion of sugar cane
Sweet apples these act by filling the
blood vessels only, Fumigation reduced
air, frictions when continued with
internal remedies are effectual sometimes
in swelled legs rubbing them upwards
stove rooms in winter the patient shd
never leave the room heate from 80 to 90
a camp life & labour, the venerial
appetites should be prevented, the
lungs & parts of generation sympathize
with one other all exciting causes shd be
avoided such as talking too much &c &
the remedies for relieving troublesg symptoms
opium at the head of them if given a few
hours before bed time will ease cough But if

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after going to bed it will have the worse effect, frictions with Spirit &c will ease the cough also a warm draught will give ease particularly if taken at bed time Dyarrhea must be relieved by the usual remedies, The Symptoms that take place before death a sudden rupture of an abcess sometimes the matter is mixed with blood a sudden rupture of Blood vessels, a sudden attack of Pneumonia Vera & notha & a translation to the brain occasioning madness, by a sore throat never secondarily when swelled legs & swoons Dyarrhea & death, When from predisposition or translated gout its unfavourable, the eyes becoming light indicates death falling off of the hair is not a good sign, a swelled face, Premna knees accompany after the spitting of blood a spitting of mucus in the beginning is not favourable, No indication can be formed of the matter expectorated, warm clothing is highly proper.

Change of diet is of use Bleeding for the cough.
It differs from Catarrh from having no
fever attending, it wears down the system
the remedies should be according to the system.
Bleeding Vomits, its often and less frequent
draughts of cold water & also standing with-
-out clothes against the cold wall often
relieves the cough Flax seed tea Laudanum
&c this last should be given during the night
Sweet oil Hyssop Horehound all compan
Syrup &c this is made into a syrup a syrup
made of garlic, tar pills oil of amber ten
or twelve drops may be taken often in the
day bathing the feet with cold water
or a Pitch plaister, In the inflamatory
state bathing & riding on Horse back are
improper, But after sufficient depletion
both are perfectly necessary, cold bathing
is an invaluable remedy used in the Sum-
-mer season, patients are so weak as not
to be able to ride then the cold bath should
be used, A lady from England under my
care was bled 36 times in six months to
prepare her for the cold bath by the said hu
care

The eruptive state of fever, this is a malignant state of fever. They are Variola or Small pox, Measles & Chicken pox. Small pox for an account of this see my Enquiries, this being a malignant state of fever the usual treatment is required copious bleeding purging & vomiting & Mercury also cold air, some of these only to be used in the inflamatory state of fever the swelling should be kept down by bathing the parts most affected with warm water see Dr Hillary & Huxham, innoculation sh'd not be performed during dentition, it may be used while other eruptions exist, it cures old sores. The matter for infection should be taken from the pustule on the arm, in innoculat'g a sharp lancet should be used the less blood is drawn the better, it generally appears about eight or nine days sometimes not for three months, a small amiole & spreading ulcer with great itching indicates a spurious disease, the Vaccine is less daingerous than this disease. this appears sooner than the other

a small circumscribed pustule app.d in this which differs from small pox, The Scab in this is smoother & more clear the efflorescence is is circular & not so in the other, while the pustules remain the system keeps clear of other complaints, Measles I refer you to practical books

Anginose State of Fever See Dr Tyssot Opera om. These are

This made its appearance after the plague in London it was known by having exacerba=tions at night being very fatal & prevailing mostly in wealthy familys & attacking children more than adults & being Sporadic I never saw it epidemic but once Dr Cullen describes this particularly, It spreads by contagion, The Matter inflames the Throat & Fauces ~~children the~~ & excoriate the fingers of Physician, great malignity exists in this disease prostration of Strength &c It appears as if seven days terminated the miseryes of those labouring under this Malignant Throat It appears a Synochus but not long, An Emetic in its forming state often prevents it the best is Turpeth Mineral I have frequently given it with advantage, after forming Bleeding if indicated, Gentle purges are of use But strong purges are bad, Bark wine opium & Mercury may be given the following may be given with success Capsicum 2 table spoonfuls Common Salt 2 table spoonfuls infused in 1/2 p of water

& give two table Spoonfuls every third hour
Blisters to the throat or an application of
Mustard & Vinegar, Sweating Medicine
fudelirium, fumigation, Gargles with
marine Acid, Deafness frequently follows
The Skin comes off, Sweating is favourable
Low diet & sweating medicines

Scarlatina Anginosa, This begins with
a shivering & sickness with sore throat attend=ed
with this an eruption of red spots appear
all over the Skin the cuticle peels off
I refer you to Dr Cullens first lines
according to Dr Curry the heat is greater
than in any other, It is taken more than
once, The remedies as for the malignant
state there are two forms of remedies, before
forming & when formed when formed
Bleeding Blistering, Vomits purges ablutions
ablulution of cold water Blisters to the legs
when the disease affects the head & chest
Bark opium &c when in the Typhoid State
The yellow Skin is always a sign of the
disease being mortal, Gargles must be
frequently used

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Anginosa Suppuritiva Patients die suffocated with this disease, sores appear behind the ears, The same remedies as in the others, When formed purging Vomits & Blisters behind the ears, I relied on Blisters & Vomits, Sores in the nose is a common symp=tom, The prophilaxis the same as the other states. They depend on one remote cause The appear. in the malignant & yellow fevers of domestic origin the Symptoms are more early, Of the Cynanche Trachealis ton This affects Children mostly, Causes are the in=sensiable qualities of the air & by causes that act in a secondary manner as small pox measles &c, & those that come on suddenly most frequently & gradually. dangerous when translated to a more vital part, its an affect of the trachea, its sometimes placed in the ~~lun~~ trachea so as cause difficult respir

Rheumatism I divide these into Rheumatismus[113]
Rheumaticula & Rheumatalgia. The first is the common inflamatory Rheumatism, The second is inflamatory with a Synochula pulse & the third consists in pain with little or no ~~pulse~~ fever. Rheumatismus depends on predisposing debility of the whole system, it affects at first those parts that the circulation is most languid in & which are most exposed to motion Viz. the Joints muscles &c it occurs most after walking straining or lifting heavy weights & from cold, Hence Soldiers & Sailors are most subject to it, in the last war no complaint was more common Cold alone is not sufficient to produce Rheuma[tism] it must be succeeded by heat, cold renders the system ~~weak~~ & excitable & therefore more easily acted on by the stimulus of heat this effect is most observeable in children after playing in the cold run to the fire Violent pain is excited here the heat is over proportioned to increased excitability, inflamatory action is produced Swelling redness tension pain & every symptom of momentary Rheumatism, this attacks different parts of the body sometimes the Soas muscle drunkards are most subject to it, It attacks in common with the gout diff[t] parts & nearly related to it ~~—~~

The remedies are first copious Bleeding both general & topical, purges in order to discharge bile these should be repeated daily or every other day, lenient purges been been recommend as Salts Castor oil Manna &c but Calomel & Jalap is preferable, Nuteral Salts are very proper in the intervals of other remedies Nitre is the best a combination of Nitre Calomel & Tartar emetic is very good it evacuates gently every day & determines to the Skin &c without affecting the blood vessels, low diet but let it be solid, cool air tem Antimonials & Blisters to the part effected Sweating Medicines as dovers powder in the giving this its not necessary to wait until all tension of the pulse is as ceased all hot applications are improper, This disease tends to terminate by effusion of serum seldom of lymph, hence the rare occurance of suppuratio Blisters anticipate these effusions & are a substitute for them, If Blisters are not submitted to cabbage leaves are proper they draw a little & deplete a little, I never applied cold water because I relieved my patients with cold air, but there is no doubt of its utility in robust habits The foundering of Horses is a rheumatism caused by too full a meal or other Stimulus on the system

induced excitable by debility generally indirect this disease is cured by letting the horse stand in cold water or swamp for 24 hours or more, the action sometimes so great as to produce effusion which not being absorbed the hoof is frequently forced off, the limbs are not alone affected but often the flesh & back painful to the horse the other applications are Mercurial Ointment & frictions at the affected part, There is an intermediate state of Rheumatism between Acute & chronic & frequently mistaken for the latter I have called it Rheumaticula, It resists all remedies usually given in chronic rheumatism it is known by a small & tense pulse called Synochula. The remedies are moderate bleeding purges, Nitre, Blisters & cool air if these fail we must excite a new disease by salivation By these means I have cured in a few days what resisted many weeks all the remedies for chronic Rheumatism. this disease only requires a less degree of means used in the acute state, It is of great consequence to feel the pulse in chronic rheumatism to discover whether no inflamatory action be present for its very difficult to overcome this action by stimuli,

Rheumatalgia, is known by an obtuse pain in the muscular fibres limbs or joints without fever

Sometimes these pains are taken for Venereal pains, from their following Venereal sores, I believe they are generally Rheumatic arising from a pre-disposition to Rheumatism from the use of mercury. when patients after Venereal complaints feel pains in their bones & joints & somewhat swelled these are taken for Venereal nodes, having previously gone thro' a mercurial course examine the pulse & you will find it nearly the same as in Rheumaticula, Hence Venereal remedies do no service, But by Bleeding Purging & nitre in 99 out of an hundred these affections have been cured without any aid from Mercury. Rheumatalgia seldom affects high life or the internal parts of the body it often follows acute Rheumatism But often comes on without acute preceding it & is generally a disease of humble life, the remedies are stimulants internal & external, the pulse is generally synochula if any inflamation should exist Bleed I found this disease yield to this remedy also purging sweating & the use of Bark I found bark doubly heavier in this than any other I have not cured by it nitre will answer in large doses, the next are Tincture of Guaicum the volatile, stimulating drinks & a T. of Poke berries has been used

with advantage This is made by putting a quantity of the berries in Spirits which extract a Tr. from them & may be used freely, all acid & subacid matters are to be avoided, acids excite this disease in some cases the wearing flannel next the the Skin will prevent & wearing flannel sheets on the bed will prevent this disease, neglected or half cured Rheumatism causes this disease a Vapour bath should be used at 100 & after this cold bath, a flesh brush, & & internally Capsicum & Volatile alkali the patients should use their limbs after the morbid action a person called Doctor cured himself by walking & horse will be cured of this complaint by swimming after the inflamation is reduced the application of strong liniments & electricity ~~tapping~~ ~~[illegible]~~ in gentle shocks strong ones may produce indirect debility this disease when affecting the loins is called Lumbago, when affecting any part the same remedies are to be used, the affection of the head is very distressing & is often cured by a sweat with vinegar the patient is to be blindfolded to exclude the vapour from his eyes he is put under a blanket & boiling vinegar introduced under the blanket he is to remain until he is enveloped with vapour the patient is

W 89

in general cured by this process, Rheumatism
alternates with Gout & other diseases as

Va 2

Va 1

Die Saturni 30mo Jan There is no such thing as misplaced gout

The unit of gout with all other disease
the gout attacks the joints more than
than any other part from being more
irritating & in people above
puberty from their not being
exposed to the causes Gout affects
the Viscera & from intemperance
being unusually Stimulated or
not being enough Stimulated
when it invades the blood vessels
it appears like other fevers
sometimes the Viscera there is no
diff a between Hesp s from Gout
as from other causes I saw black
Vomit in Gout The muscles
Brain &c Ether there is nothing
sacred in this It prevents other
diseases but brings on others, like
dreams in curing intermittents

Spines when the Stomach is att d & with Spasms Oil of Amber

with advantage This is made by putting a quantity of the berries in Spirits which extract a [illegible] from them & may be used freely, all acid & subacid

matter

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It is a common thing to recommend Stimults in this or nothing in the low living is another error nothing brings on Death sooner than gout by reducing the system. Remeds 1st in the forming State & its only State cutn local Symps & those that erade effect from the system Languid The system in this state is in a state of depression by taking some

The Terms in [illegible] morbid action in the blood vessels Bleeding prevents a recurrence it attacks other parts as well as the limbs, when in the Sev[illegible] by es bleeding more, the pulse will indicate the treatment. Blood is Sizy Bleeding shortens the duration by driving it out of the system

Purge & Sulphur when these loose not do Vomits may be given

[illegible] & boiling [illegible] introduced under the blanket he is to remain until he is envelloped with Vapours the patient is

W89

in general cured by this process, Rheumatism
alternates with Gout & other diseases as

The limb should be kept outside
the close cold water app d to the
limb is safe but I would not
recom d it to those that were attacke
by it in the Stomach brain &c
abstinence from beg t Blisters are
invaluable succeeding, app n of warm
ion s or feeble action is induced
by a neglect or scanty use of stimul
as in Sherry wine porter bottle
ale &c Spices when is attacke
the Stomach when spasms oil of
amber when the Stomach can bears
Bath warm bath salivation
frictions to the Stomach are the
remed s as in Typhus
Symp s a dull head ache after
pain in the limbs a gout & dyspepsia
angina pectoris spasm in the
Stomach & bowels a few drops
of laud m Ether there may be to stop

Spices when the Stomach is att d & wh n spasms Oil of Amber

with advantage This is made by putting a quantity
of the berries in spirits which extract a [illegible] from
them [illegible] [illegible] & [illegible]
matter [illegible]
in som[illegible]
the St[illegible]
on th[illegible]
or ha[illegible]
a Vap[illegible]
this a[illegible]
Capsi[illegible]
Shou[illegible]
a pu[illegible]
walk[illegible]
by S[illegible]
the a[illegible]
elect[illegible]
strong[illegible]
This a[illegible]
Lumb[illegible]
were a[illegible]
mad[illegible]
a Swe[illegible]
blind[illegible]
he is [illegible]
intra[illegible] [illegible] he is to remain
until he is enveloped with vapour the patient is

pain in the rectum bleeding in the anus
the [illegible] Gonorrhoea should be
cured as in any other there is no
seed of gout in the system after the
paroxysm is over the remedies are
then should be difft according to
the attacks the [illegible] appe[illegible] to
should be indulged with mod to
exercise as when bleeding with
frequently, those that attack
the viscera a strengthening aliment
gentle exercise, Skill in Medicine
depends on proper times to give
remedies the should be treated as
in Rheumatism, The Cephalic State
Dr Cullen Apoplexy affects the whole
brain The phrenitic State
causes that act sympathetically & transfer
them on the brain sympathetic
delirium a constant [illegible] in
recollect convers not knowing their
friends the diff between the

W89

in general and by this process, Rheumatism alternates with Gout & other diseases as Gonorrhoea, this shews the sameness of Gout & Rheumatism in the latter affecting chiefly external parts & inferior in degree & Gout affecting with more violence every part of the body.

Arthritic State of Fever

This includes Gout & Rheumatism for a view of the Gout; I refer you to my enquiries Its a disease of the whole System, it may be compared to a monarch to which the System crouches before it. Gout is a protection to the System it prevents other diseases from coming on but brings on others, like drams in the case of intermittants, the pulse indicates the treatement, Bleeding shortens the duration, purging Sulphur is the most common in this disease cold water applied to the part is safe But I would not recommend it to those that were subject to its attacks in the Stomach & brain. Abstinance Blisters are an invaluable remedy Sweating! Remed^s in feeble action Opium Cherry wine porter & Volatile alkali Spices when the Stomach is att^d & with Spasms Oil of Amber

The Cephalic State of fever, this is subdivided into Apoplexy Paralysis Hydrocephalus & mania, Apoplexy occurs from many causes all the remote causes of fever sometimes produce it especially contagions of all kinds as plague yellow fever small pox & even Influenza marsh miasmata has produced it for an account of its causes see books on the subject Its proximate cause depends on oppression on the brain from congestion or effusion, The matter effused may be either Blood Water or purulent matter, The effusion may be made into the Ventricles plexus coroides or any cavity of the brain, The effusion is from a rupture of the vessels, The effusion of blood & water have been said to produce different symptoms, from all dissections after this disease the same symptoms occurs from both, the slow or intermitting pulse occurs in both, oppression is the same whether caused by blood or water, Apop[?] from any of the remote causes of fever, is known by commencing when fevers prevail & from wearing some symptoms of the prevailing epidemic, Mr Hensey labouring under the Paralytic State of fever, had

green stools yellow eyes & other symptoms of billious fever. the more fever there is the less ~~fear~~ danger as it denotes a diffused not a concentrated morbid action, other remote & exciting causes are, intemperance in eating & drinking contusions on the head from falls & blows a sudden concussion given the brain by jumping from a great hight & landing on the feet has been little noticed, tho I knew it produced appoplexy in a soldier, Fixed air the fumes of Mercury a violent shock of electricity Lightning large doses of Opium the smocking of tobacco insolation long application of the understandg & passions to one subject suppression of ac=customed Hemoreges or discharges of any kind Violent exercises as drawing stooping straining or Violent fits of anger long & loud speaking great heat, & cold feet two instances of this coffee house by attending sales on the wet ground, there are precursors of this disease which is important to understand, they are giddiness of the head headach drowsiness numbness of one or both limbs frequent attacks of night mare from lying on the back or with the neck bent to one side

Suppression of the piles dull or false vision dull hearing sudden blindness inflamation of the face & neck full & slow respiration all these indicate apoplexy, In this state low diet purges & bloodletting occasionally would prevent the attack. The pulse is very various in this disease sometimes full & at other times tense & small, Sometimes hardly perceptable being not more than seven in a minute all forms of the pulse is observable in apoplexy & all calls for bleeding, I have already enumerated the different states of the pulse which demand bleeding in the following states of the system

1st In the begining of diseases, 2ly In a paroxism of periodical disease, 3ly or in a relapse or a total absence of the pulse is one of the strongest indications for bleeding Bleeding to be effectual in this disease must be very copious as the cure depends on the sudden abstraction of blood, both arms ought to be opened at the same time, after the pulse is I do not say reduced but regu-lated, If any symptoms of the disease continued cupping may be used, for

now it becomes a local disease & no longer affects the arterial system in general, but continue to bleed until you have drawn 150 or 200 Oz., if any of these morbid states of the pulse remain by such copious bleed ~~at first~~ at the first period ~~at the first~~ of the attack, I believe apoplexy would be as curable as the yellow fever, I have often exemplified the necessity of copious bleeding by supposing in health the force of the blood at 20 the force of the blood vessels at 20 the blood abstracts from the force of the vessels & reduces them to five rising itself to 35 to restore the equilibrium we must abstract from the blood all the excess of force, when bloodletting cannot be performed pressing the fingers on the Carotids is of use Dr Glinsworth recovered a man in a few minutes who had fallen apoplectic in the street by this last means In cases where the pulse is weak & slow the effect of great indirect debility, the bleeding had better be gradual in order that the vessels may become their play by degrees. Bleeding is seldom successful

after the debility has continued for more than two or three hours, the vessels by long labouring under violent distention are unable to recover their healthy action When the blood is abstracted from them Vitality & are in a torpid or dead state In these cases abstracting blood immedi'y from the arteries would more probably be successful, purges are also very good they evacuate without exciting inflammat'y action in the arterial system, Glysters should be used until the bowels are perfectly cleansed. Cold air is very necessary Cold water applied to the head is successful in curing a tendancy to apoplexy. The Dr's Cephalic Cap is very advantageous it contains cold water & ice, Cold water dashed on the face & head is very beneficial a person called dead drunk is in an apoplexy the boys in the street cure this by pumping the person, after bleeding & purging & the patients discover any signs of reason, the passions may be wrought upon, fear is the greatest

If all these remedies fail & the disease far advanced, Stimuli are indicated, they must be Blisters to the head & neck actual cautery & cataplasms to the feet. Mustard &c is the quickest in its operatn & Glysters must be injected, Fresh air especially if foul air occasioned the disease Electricity Light. Frictions Sounds, Sometimes these not only restore action but excite violent morbid action & then the above depleting remedies are useful. Sometimes want of memory & other faculties are impaired & these follow apoplexy. Issues are useful then at the neck, Vomits are given if the disease proceeds from any thing taken into the Stomach But bleeding must first be used to take down the oppressive action of the brain, from the Violence of apoplexy ounces of Tartar emetic may be taken without causing Vomiting—

With this came part of a cover of another notebook on which was written in the same hand writing "Physicks Notes by Constans Curtin."
Constans Curtin was a student in 1806-7, 1807-8, 1808-9 but did not graduate.

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